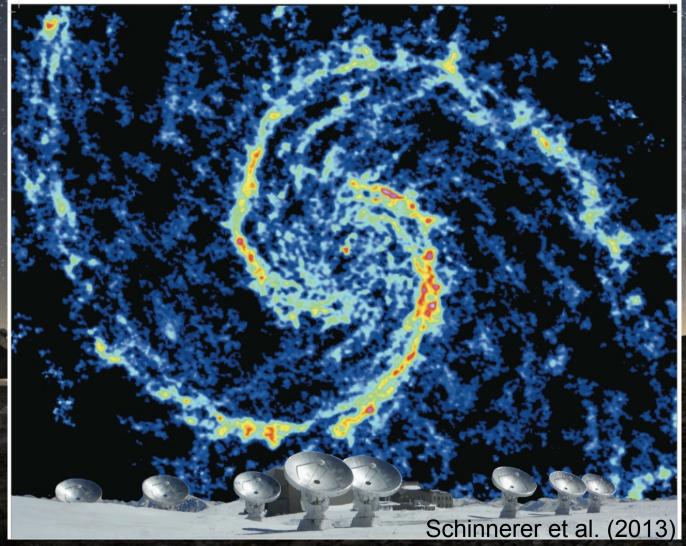
# Melanie Krips IRAM, Grenoble

# **Motivation**

\* LP from 2009! \* 60 pointings array at the time, 200h of t

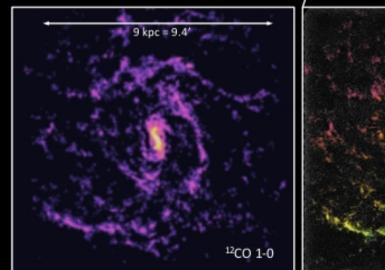


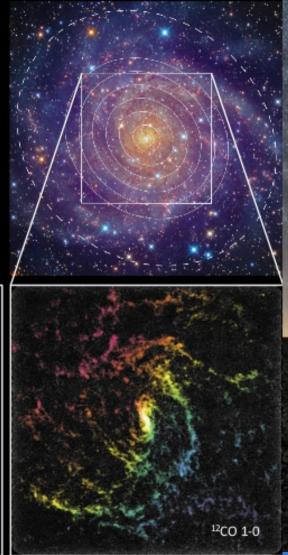
\* 2016! \* >900 pointings > NOEMA + IRAM 30m cover 70% of the SF disk \* 6 antennas in array ~50h of t (not as deep as PAWs!)

**Motivation** 

Molecular clouds in IC342 PI A.Schruba (MPE)

- D = 3.3 Mpc, M(gas) = 10<sup>10</sup> M<sub>☉</sub>, SFR = 1.9 M<sub>☉</sub>/yr
- NOEMA = 1250-field mosaic, 60 pc resolution = 3.8"
- 1500 molecular clouds with S/N > 5



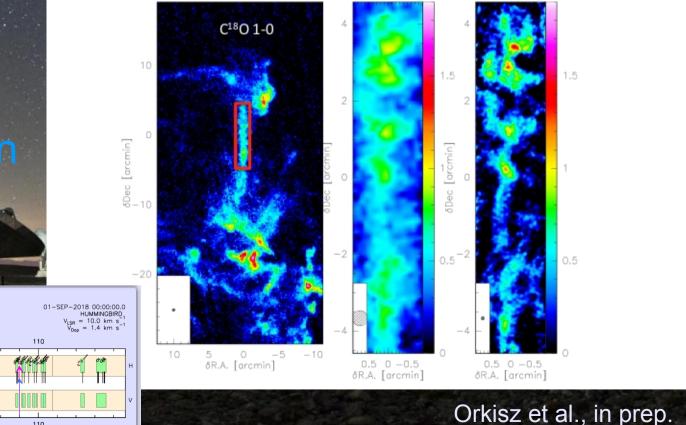


# **Motivation**

Instrumental tuning Spectrol windows:

\* Aug/Sep2018!
\* >100 pointings
\* Many lines!
\* 8-10 antennas in

Filamentary structures in NGC 2024 - Jan Orkisz et al. in prep First light with NOEMA 10 antennas + IRAM 30-meter telescope



C 10 C 1 HUMMINGBRO HUMMINGBRO 108/128 Hexible churks used REST: 109.000 CH2 (SR: 108.996, RF: 109.000) IF1: 5996.364 MHz USB 95 100 H H H B C 105 105 100 105 100 105 100 Rest Frequency (GHz) Rest Frequency (GHz) Holf the most norrow SPW is equivalent to an offset of 88.013 km/s in source LSR velocity

TO" TRAIN Interferometry School – 01-05 October 2018

## **Motivation**

\* Early 2000's
\* ~30h tos to detect CO at high-z (z>1)

Krips et al. (2005)

\* 2017: >10sources in half the time for entire sample!!!

This gives you (scientific) ideas? (If it did not already ....;) ....)

This gives you (scientific) ideas? (If it did not already ....;) ....)

# **GREAT!**

**Proposal Preparation** 

**Reviewing Process** 

Observations

Data Reduction

### Proposal Preparation

# **Reviewing Process**

### Observations

# Data Reduction

Get to know NOEMA!

\* When and how to apply for time?
\* What are the technical specifications? (frequency coverage, angular/spectral resolutions, possible observing modes...)
\* What proposal categories exist?
\* What weather conditions to expect when?
\* Has my project already been done?
\* Other things to consider?

Get to know NOEMA! \* What are the technical specifications? resolutions, possible observing modes....) \* What proposal categories exist? \* What weather conditions to expect when? \* Has my project already been done? \* Other things to consider?

# Can everyone apply?

3. Up to 15% of the available observing time may be invested into projects submitted by PIs affiliated with institutes in non-IRAM partner countries.

Geographic distribution of NOEMA users across the world between 2010 and 2017. During this period, 1790 individual investigators from 43 countries submitted proposals for the NOEMA Interferometer.

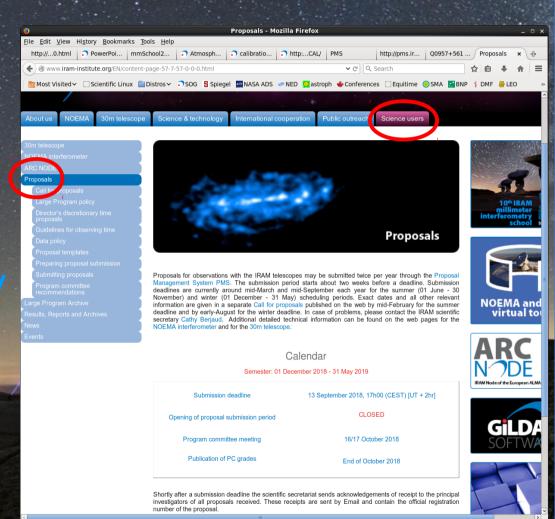
L'NH



When to apply for time?

2 deadlines per year: \* 2<sup>nd</sup> week of March Summer 01 June – 30 Nov \* 2<sup>nd</sup> week of Sen

Dec – 31 Mav



How to apply for time?

Use online proposal system to apply: \* PMS: http://pms.iram.fr

see talk by

Ch. Lefevre



DDT proposals can be submitted at any time.

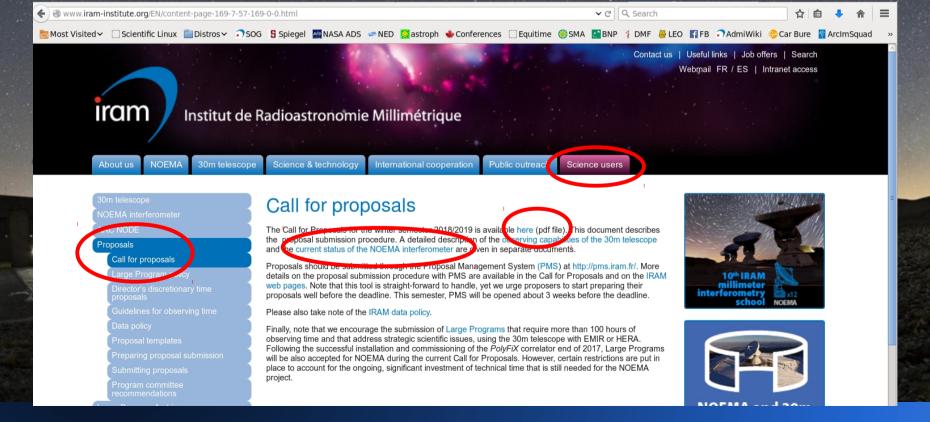
You need to login or create a new account in order to submit your proposal.

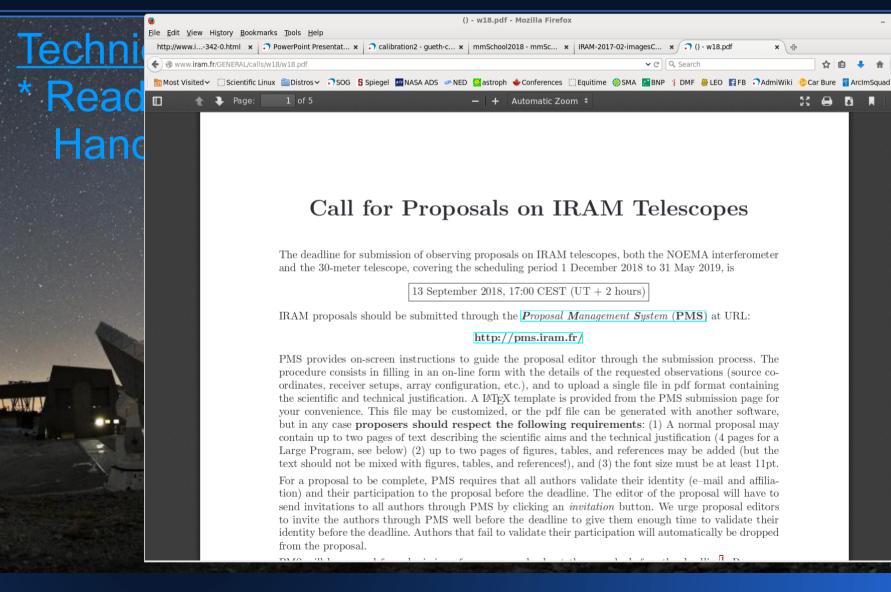
The site has been tested with the following browsers: Firefox 4+, Safari 6+, Chrome 5+ and Internet Explorer 10+.

Get to know NOEMA!

\* When and how to apply for time?
\* What are the technical specifications? (frequency coverage, angular/spectral resolutions, possible observing modes,...)
\* What proposal categories exist?
\* What weather conditions to expect when?
\* Has my project already been done?
\* Other things to consider?

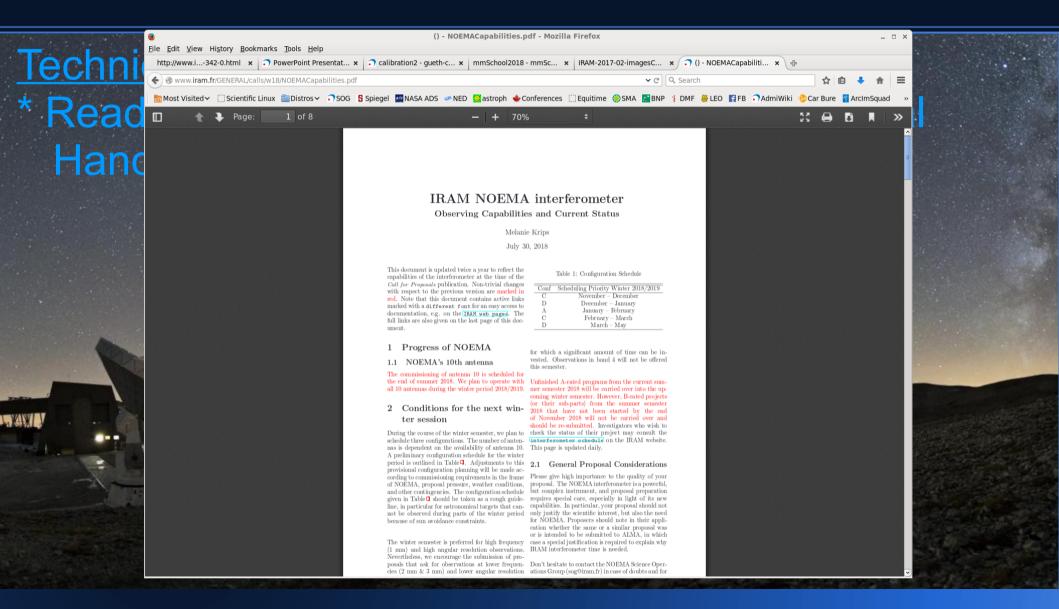
# <u>Technical Considerations:</u> \* Read the Call for Proposals and the "Technical Handbook" for NOEMA:

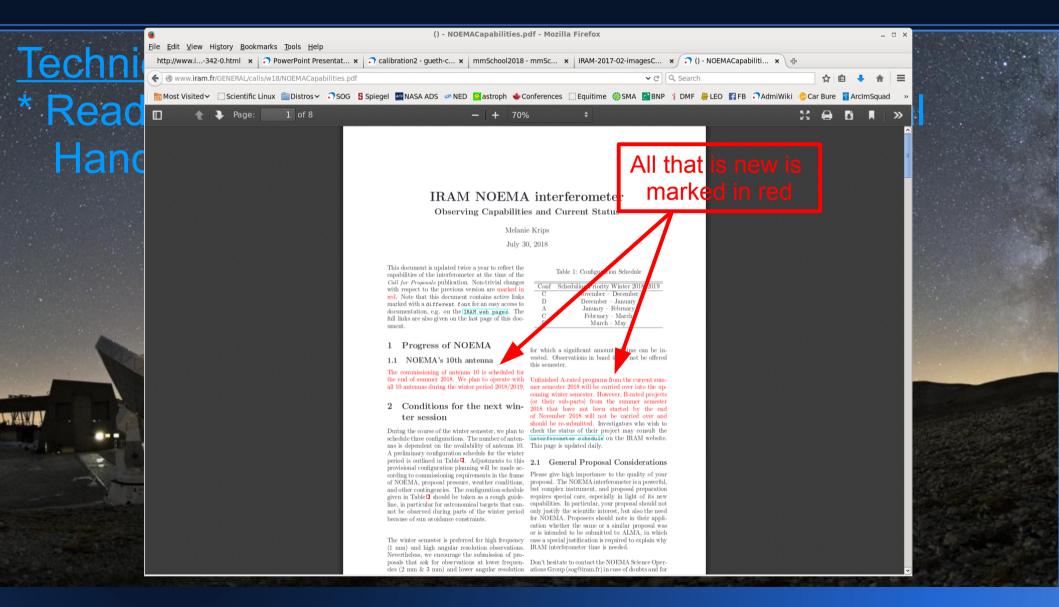




# 50 🖨 🖪

× \ ₽





# **Technical Considerations:**

\* What deadline to choose?
- What frequency (band) do you need?
- Which configuration do you need?
- Are the constraints wrt to source visibility

Frequency Coverage/bands offered: \* 3 bands offered: 3mm, 2mm & 1mm (band 4 currently not available)

Table 3: Receiver characteristics

	Band 1	Band 2	Band 3
$F_{LO1} range/[GHz]^*$	82.0 - 108.256	138.616 - 171.256	207.744 - 264.384
$F_{sky} range/[GHz]^{\star}$	70.4 - 119.872	127.000 - 182.872	196.128 – 276.000
$T_{\rm rec}/[{\rm K}]^{\star\star}$	25 - 45	35 - 55	40 - 70
$G_{im}/[dB]$	<b>-</b> 15 <b>--</b> 10	-1510	-1510

\* Guaranteed LO1 frequency ranges per offered band. The LO1 frequency is the center frequency between the USB and LSB that can both be simultaneously observed in one tuning (see Fig 1). The center frequency of the USB (LSB) is separated by +(-)7.744 GHz from the LO1 frequency. With an effective width of 7.744 GHz per sideband the lowest and highest sky frequencies that can be covered per tuning are hence  $F_{sky}=F_{LO1}\pm11.616$  GHz. The lowest and highest LO1 frequencies per band define the  $F_{sky}$  ranges that are guaranteed for this call. \*\* for LSB and USB.

Frequency Coverage/bands offered: \* 3 bands offered: 3mm, 2mm & 1mm (band 4 currently not available)

I		Table 3: Receive	er characteristics	
/		Band 1	Band 2	Band 3
(	$F_{LO1} range/[GHz]^*$ $F_{sky} range/[GHz]^*$	82.0 - 108.256	138.616 - 171.256	207.744 - 264.384
l	$F_{sky} range/[GHz]^{\star}$	70.4 - 119.872	127.000 - 182.872	196.128 - 276.000
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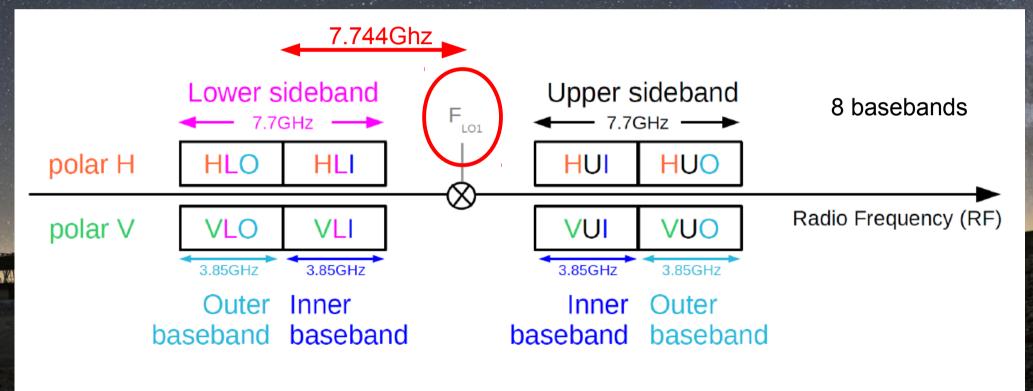


Figure 1: Basebands fed to the correlator

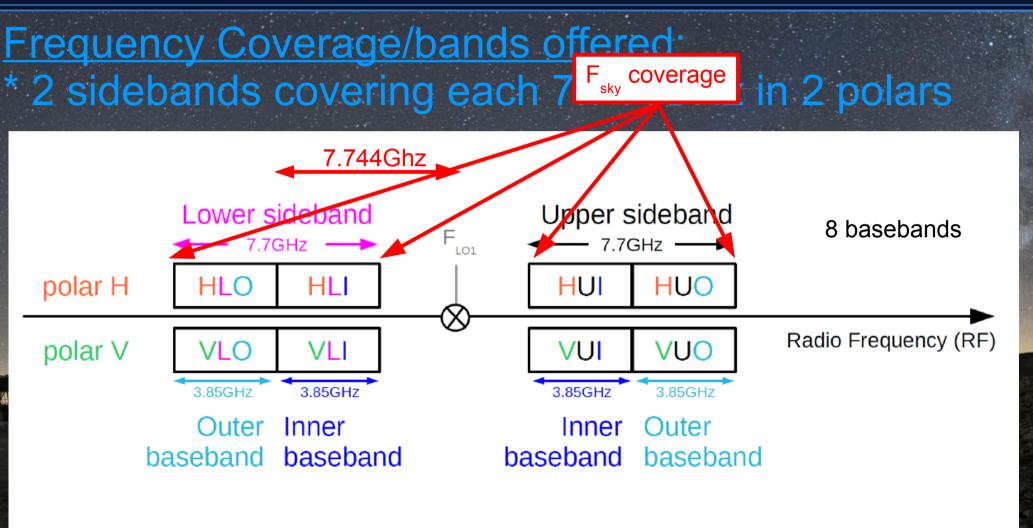


Figure 1: Basebands fed to the correlator

Frequency Coverage/bands offered: \* 3 bands offered: 3mm, 2mm & 1mm (band 4 currently not available)

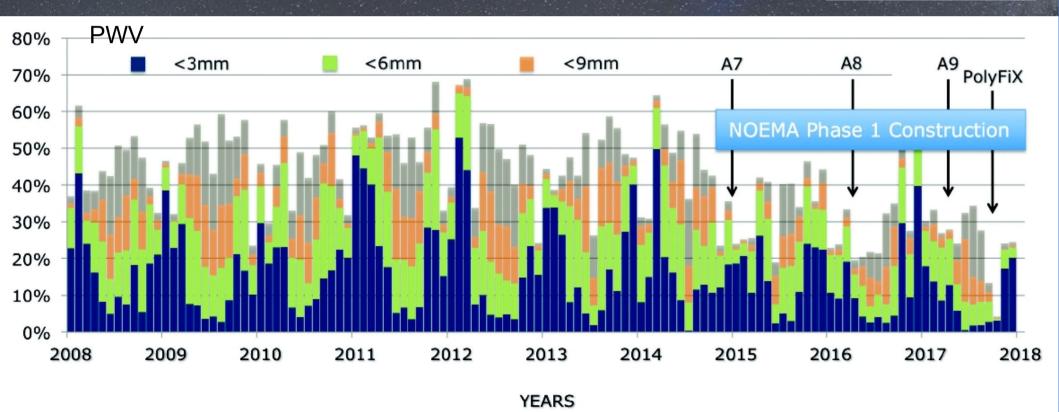
Table 3: Receiver characteristics

	3mm	2mm	1mm
	Band 1	Band 2	Band 3
F <sub>LOT</sub> range/[GHz]*	82.0 108.256	$128.616 \ 171.256$	207.744 $264.384$
$F_{sky} range/[GHz]^*$	70.4 - 119.872	127.000 - 182.872	196.128 - 276.000
m /[īz]↓↓	25 - 45	35-55	40-70
$G_{im}/[dB]$	-1510	-1510	-1510

\* Guaranteed LO1 frequency ranges per offered band. The LO1 frequency is the center frequency between the USB and LSB that can both be simultaneously observed in one tuning (see Fig 1). The center frequency of the USB (LSB) is separated by +(-)7.744 GHz from the LO1 frequency. With an effective width of 7.744 GHz per sideband the lowest and highest sky frequencies that can be covered per tuning are hence  $F_{sky}=F_{LO1}\pm11.616$  GHz. The lowest and highest LO1 frequencies per band define the  $F_{sky}$  ranges that are guaranteed for this call. \*\* for LSB and USB.

When to observe what band:

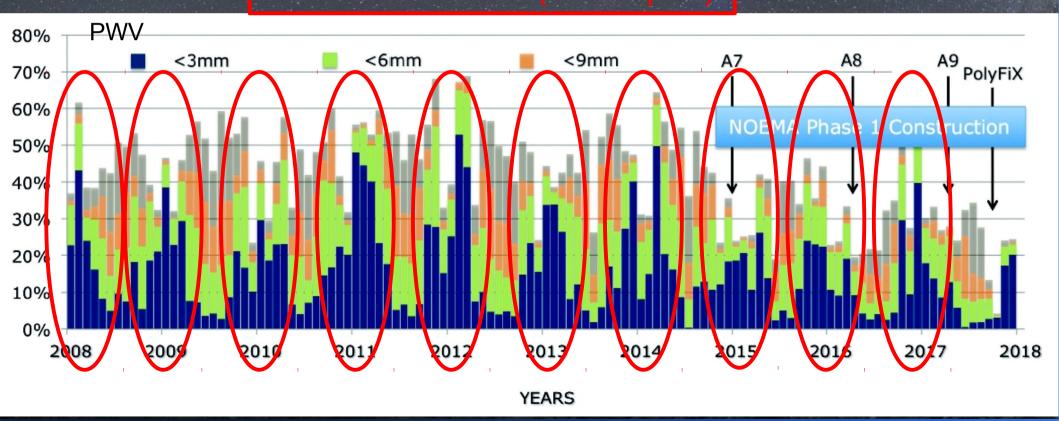
NOEMA correlation time and atmospheric water vapor statistics during on sky operation over the last ten years.



# When to observe what band:

Winter semester has the best

NOEMA correlation time and atmospheric water vapor statistics during on sky operation over the last ten years.



When to observe what band:

Band3 (1mm): pwv<5mm

Band2 (2mm): pwv<7mm

Band1 (3mm); pwv<15mm

When to observe what band:

Band3 (1mm): pwv<5mm

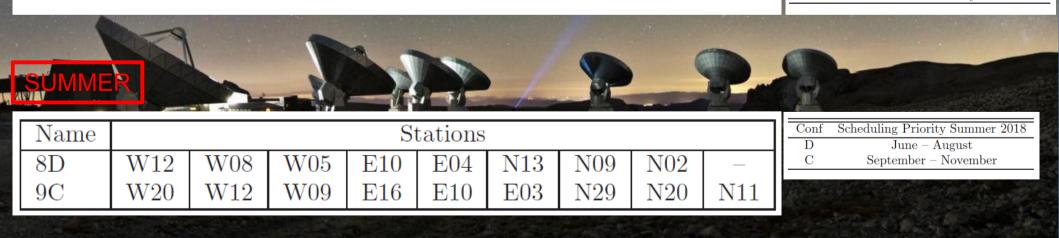
Band2 (2mm): pwv<7mm



Band1-(3mm): pwv<15mm-

# <u>Offered Configurations:</u> \* In total 3 configurations available: D, C and A

10D	W12	W08	W05	E10	E04	N17	N13	N09	N05	N02	Conf	Scheduling Priority Winter 2018/2019
10C	W23	W20	W09	E23	E18	E10	E03	N20	N17	N11	C D	November – December December – January
10A	W27	W23	W08	E68	E24	E16	E03	N46	N29	N20	A C	January – February February – March
				•							D	March - May



# <u>Offered Configurations:</u> \* In total 3 configurations available: D, C and A

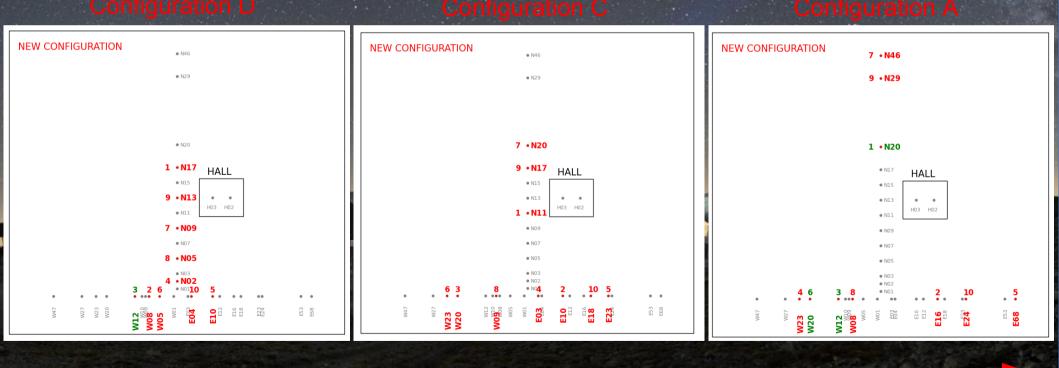
### WINTEF

10D	W12	W08	W05	E10	E04	N17	N13	N09	N05	N02	Co	0 0 1
 10C	W23	W20	W09	E23	E18	E10	E03	N20	N17	N11		November – December December – January
10A	W27	W23	W08	E68	E24	E16	E03	N46	N29	N20	A C	January – February February – March
											D	March - Mav

3/2019

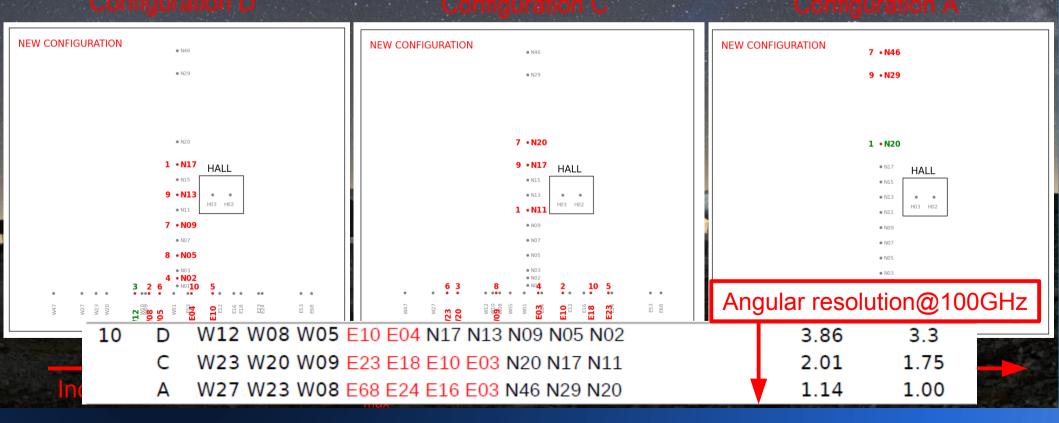
SUMME	SUMMER SUMMER											
Name		Stations								Conf         Scheduling Priority Summer 2018           D         June – August		
8D	W12	W08	W05	E10	E04	N13	N09	N02	_		r – November	
9C	W20	W12	W09	E16	E10	E03	N29	N20	N11	RESERVED ST		
							ALC: NO E	200		and the state of the	and the second second	

# <u>Offered Configurations:</u> \* In total 3 configurations available: D, C and A



Increasing baseline length (b\_\_\_\_from ~80m to ~800m)

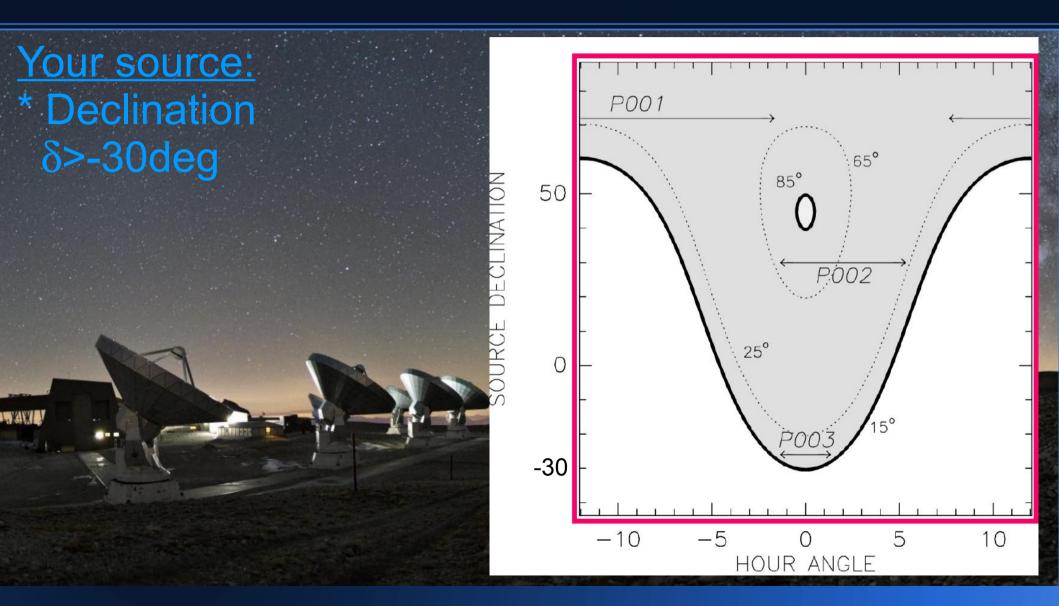
# <u>Offered Configurations:</u> \* In total 3 configurations available: D, C and A

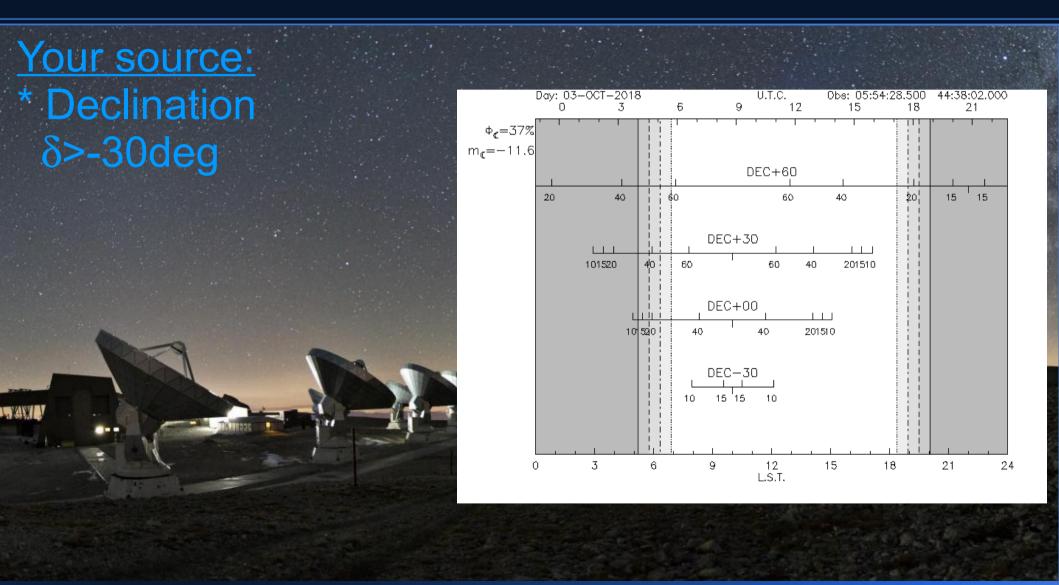


- <u>Offered Configurations:</u> \* In total 3 configurations available: D, C and A
- \* Short Spacings needed from the 30m?

# Your source:

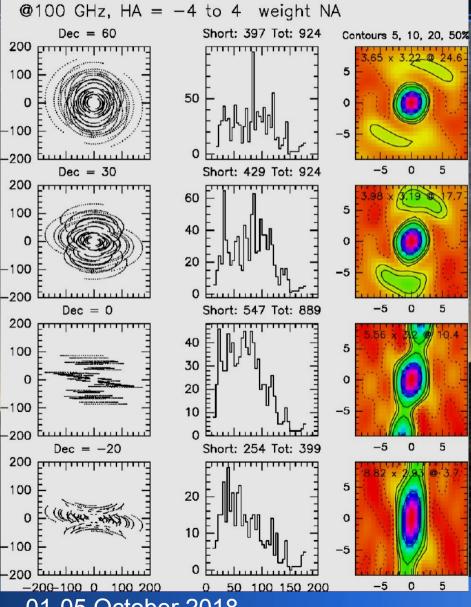
\* Source position in the sky (RA,<u>Declination</u>) LST range Sun avoidance





Your source: \* Declination δ>-30deg uv-coverage depends





0

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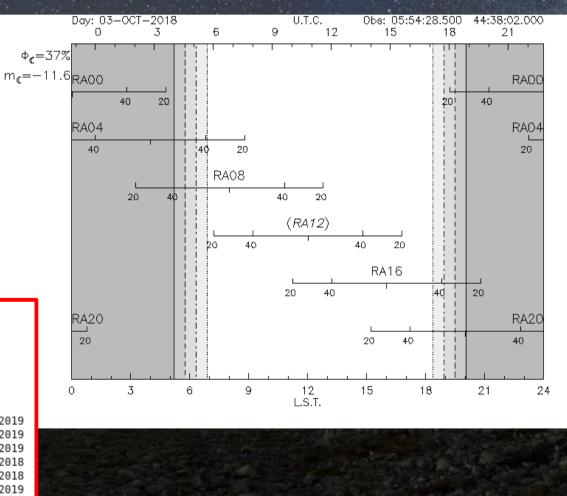
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10th IRAM Interferometry School – 01-05 October 2018

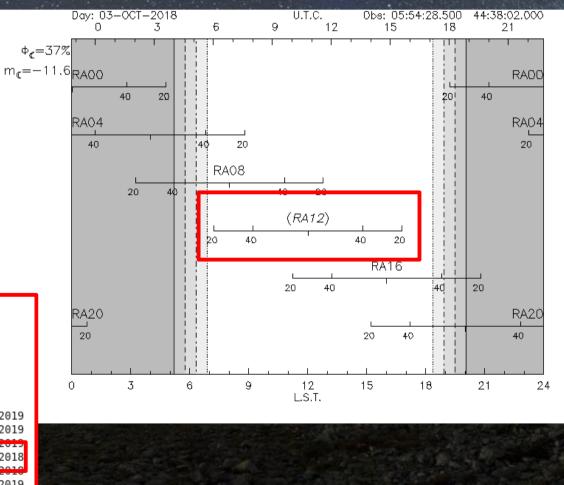
Your source:
\* Declination δ>-30deg uv-coverage depends on δ!
\* Sun Avoidance/Az: Is source visible?

ASTRO> cata az.sou I-CATALOG, New source catalog is az.sou ASTRO> time ASTR0> obs noema I-OBSERVATORY, Selected NOEMA observatory I-OBSERVATORY, NOEMA status is set to year 2017 >> NOEMA receivers with Polyfix backend ASTRO> hori /sou /night RA00 Sun distance 169.1 Avoidance 21-FEB-2019 to 26-APR-2019 RA04 Sun distance 129.2 Avoidance 19-APR-2019 to 23-JUN-2019 RA08 Sun distance 70.3 Avoidance 20-JUN-2019 to 25-AUG-2019 RA12 Sun distance 16.7 Avoidance 17-AUG-2018 to 21-OCT-2018 RA16 Sun distance 52.5 Avoidance 05-NOV-2018 to 01-DEC-2018 RA20 Sun distance 111.2 Avoidance 12-JAN-2019 to 07-FEB-2019 ASTR0>



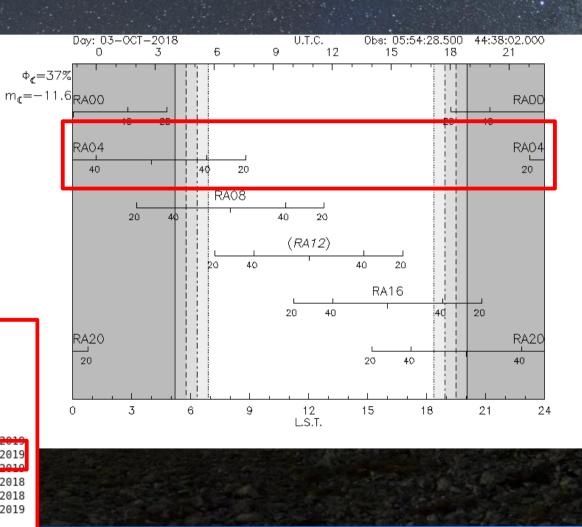
Your source:
\* Declination δ>-30deg uv-coverage depends on δ!
\* Sun Avoidance/Az: Is source visible?

ASTRO> cata az.:						
I-CATALOG, New	source catalo	g is az.	. sou			
ASTRO> time						
ASTRO> obs noem	a					
I-OBSERVATORY,	Selected NOEM	A observ	/atory			
I-OBSERVATORY,	NOEMA status	is set t	to year 2017	,		
>> NOEMA rec	eivers with Po	lyfix ba	ackend			
ASTRO> hori /so	u /night	-				
RA00	Sun distance	169.1	Avoidance	21-FEB-2019	to	26-APR-2019
RA04	Sun distance	129.2	Avoidance	19-APR-2019	to	23-JUN-2019
RACO	Sun distance	70.3	Avoidance	20 JUN 2019	LU	25 AUG 2019
RA12	Sun distance	16.7	Avoidance	17-AUG-2018	to	21-0CT-2018
0416	Sun distance	52.5	Aveidance	05 NOV 2010	to	01 DEC 2010
RA20	Sun distance	111.2	Avoidance	12-JAN-2019	to	07-FEB-2019
ASTR0>					_	



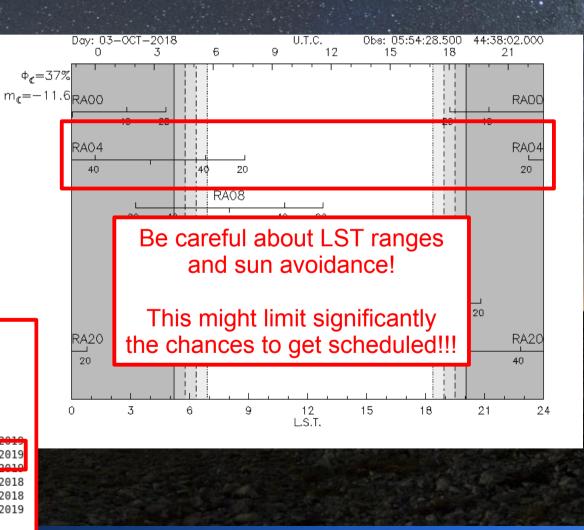
Your source:
\* Declination δ>-30deg uv-coverage depends on δ!
\* Sun Avoidance/Az: Is source visible?

ASTRO> cata az.sou I-CATALOG, New source catalog is az.sou ASTRO> time ASTR0> obs noema I-OBSERVATORY, Selected NOEMA observatory I-OBSERVATORY, NOEMA status is set to year 2017 >> NOEMA receivers with Polyfix backend ASTRO> hori /sou /night RA04 Sun distance 129.2 Avoidance 19-APR-2019 to 23-JUN-2019 RA12 Sun distance 16.7 Avoidance 17-AUG-2018 to 21-OCT-2018 RA16 Sun distance 52.5 Avoidance 05-NOV-2018 to 01-DEC-2018 RA20 Sun distance 111.2 Avoidance 12-JAN-2019 to 07-FEB-2019 ASTR0>



Your source:
\* Declination δ>-30deg uv-coverage depends on δ!
\* Sun Avoidance/Az: Is source visible?

ASTR0> cata az.sou I-CATALOG, New source catalog is az.sou ASTRO> time ASTR0> obs noema I-OBSERVATORY, Selected NOEMA observatory I-OBSERVATORY, NOEMA status is set to year 2017 >> NOEMA receivers with Polyfix backend ASTRO> hori /sou /night RA04 129.2 Avoidance 19-APR-2019 to 23-JUN-2019 Sun distance 20 RA12 Sun distance 16.7 Avoidance 17-AUG-2018 to 21-OCT-2018 RA16 Sun distance 52.5 Avoidance 05-NOV-2018 to 01-DEC-2018 RA20 Sun distance 111.2 Avoidance 12-JAN-2019 to 07-FEB-2019 ASTR0>



# Sensitivity requirements: \* How to calculate sensitivities and corresponding telescope time?



$A \ \eta_a$	collecting area of a single antenna $(176.7m^2)$ aperture efficiency (0.80 @ 3mm, 0.75 @ 2mm, 0.65 @ 1mm)
$\eta_j$ $\eta_C$	instrumental decorrelation $\eta_j = e^{-\sigma_j^2/2}$ (0.90 to 0.98) correlator efficiency ( $\eta_C = 0.88$ )
k	Boltzmann constant
$\langle T_{sys}  angle$	average system temperature [K]
$\eta_p$	atmospheric decorrelation $\eta_p = e^{-\sigma_p^2/2}$ (0.6 to 0.98)
N	Number of antennas (currently 10)
$\delta  u$	Spectral Bandwidth [Hz] $(62.5 \mathrm{kHz} \text{ to } 15.6 \mathrm{GHz})$
$t_{ m on}$	On-source integration time [s], $t_{\rm obs} = 1.6 t_{\rm on}$
$N_{ m pol}$	Number of polarizations (1 or 2)
$rac{2k}{\eta_a A \cdot \eta_j \eta_C}$	= $J_{pk}$ : Conversion factor Kelvin to Jansky 22 Jy/K @ 3mm, 26 Jy/K @ 2mm, 35 Jy/K @ 1mm



Sensitivity requirements:

\* How to calculate sensitivities and corresponding telescope time?

### Use either time estimator in PMS or astro:

		a	stro GU	1	-	□ × □						
it sic	C Window	GREG	NOEMA	Pico Vel	eta Demos	Help						
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_			Detai	led Sensit	ivity estimato	or				-		
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			New	project		201	8		•			x
File	Edit View	Searc	h Termi	nal Tabs	Help							
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SIC# exit ASTR	exit 0>											

ASTR0> ASTR0> [



Sensitivity requirements:

\* How to calculate sensitivities and corresponding telescope time?

### Use either time estimator in PMS or astro:

			a	stro GU		-	• ×					
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SIC# [1] 2 SIC# (gimp	)> )> )> )> )> 2669 0:2669	& 9): GL	Sun Sun Sun Sun		68.9 9.2 50.7 110.3	Avoidance Avoidance Avoidance	e 04-JUL 22-AUG 23-OCT 23-DEC	-2019 1 -2018 1 -2018 1 -2018 1	to 18-AUG to 28-OCT to 20-DEC to 19-FEE	- 2019 - 2018 - 2018 - 2018 - 2019	or	ſ
SIC# SIC# exit ASTRC ASTRC	)>											

	NOEMA Sensitivity Estimato	r (proposal)	×
	NOEMA hardware generation	PolyFiX	\$
	Observing session	winter	\$
	Observation kind	line	\$
	Bandwidth resolution input kind	velocity	\$
	Number of polarizations with the same setup	2	\$
	Source declination [deg]	25	
	Observing Frequency [GHz]	230	
	Velocity resolution [km/s]	0.25	
	Frequency resolution [MHz]	0	
	Total telescope time [hrs]	8	
	Spatial resolution [arcsec]	11	
	Single field (No) / Mosaic (Yes) 🔲 No		
	Field area [arcmin^2]		
	Single source (No) / Track-sharing (Yes) 🗌 No	D	
	Number of sources 1		
ſ	Help	Go Clos	se



Sensitivity requirement	NOEMA Sensitivity Estimator	(proposal)	×
	NOEMA hardware generation	PolyFiX 🗘 🗘	
How to calculate sens	Observing session	winter 😂	ding
	Observation kind	line 😂	•
telescope time?	Bandwidth resolution input kind	velocity 😂	
Use either time estim	Number of polarizations with the same setup	2   \$	
astro GUI _ □ ×	Source declination [deg]	25	
SIC Window GREG NOEMA Pico Veleta Demos Help	Observing Frequency [GHz]	230	
Image: Sensitivity estimator       Image: Sensitivity estimator	Velocity resolution [km/s]	0.25	
New project	Frequency resolution [MHz]	0	
File       Edit       View       Search       Terminal       Tabs       Help         krips@krips:~/vortraege/s       X       krips@krips:~/home/PRO       X       pdbsog@reduc02:~/www/       X	Total telescope time [hrs]	8	
RA04       Sun distance       128.4       Avoidance       25-APR-2019       to 09-JUN-2019         RA08       Sun distance       68.9       Avoidance       04-JUL-2019       to 18-AUG-2019         RA12       Sun distance       9.2       Avoidance       22-AUG-2018       to 28-OCT-2018	Spatial resolution [arcsec]	11	
RA16 Sun distance 50.7 Avoidance 23-0CT-2018 to 20-DEC-2018 RA20 Sun distance 110.3 Avoidance 23-DEC-2018 to 19-FEB-2019 ASTRO> ASTRO> ASTRO> ASTRO> ASTRO>	Single field (No) / Mosaic (Yes) 🔲 No Field area [arcmin^2] 0		
ASTRO> ASTRO> sys SIC# gimp & [1] 2669 SIC# (gimp:2669): GLib-WARNING **: goption.c:2132: ignoring no-arg, optional-arg or f ilename flags (8) on option of type 0	Single source (No) / Track-sharing (Yes) 🗌 No Number of sources 1		
SIC# SIC# exit exit ASTRO> ASTRO> ASTRO>	Help	Go Close	

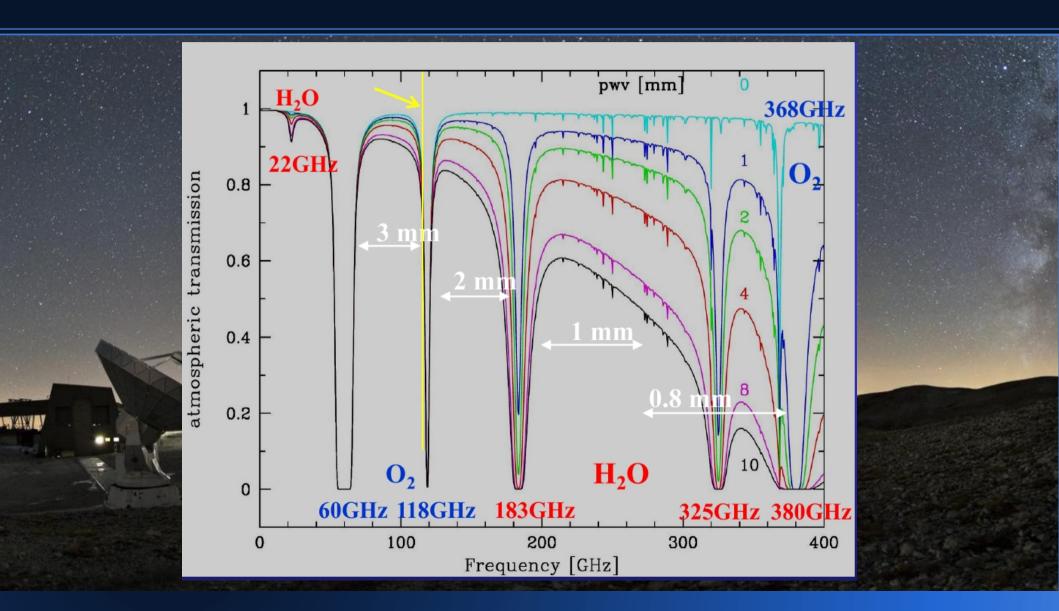
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10th IRAM Interferometry School – 01-05 October 2018

krips@krips:~/vortraege/suso2018		NOEMA Sensitivity Estimator	r (proposal) ×	
File Edit View Search Terminal Tabs Help				
krips@krips:~/vortraege/suso2018 🗶 krips@krips:~/home/PROPOSAL/S	💥 pdbsog@redu	NOEMA hardware generation	PolyFiX	<b>.</b>
ASTRO> I-NOEMA-SENSITIVITY-ESTIMATOR, Line observation		Observing session	winter 😂	ling
I-TASK, Created .check File /home/krips/.gag/scratch/114903/inte	er-sensitivity.	Observation kind	line 😂	
I-RUN, Task inter-sensitivity running, logfile is I-RUN, /home/krips/.gag/logs/inter-sensitivity.gildas		Bandwidth resolution input kind	velocity 🗘	
Interferometer Sensitivity	1	Number of polarizations with the same setup	2 \$	
· · · · · · · · · · · · · · · · · · ·		Source declination [deg]	25	
Frequency: 230.000 GHz wavelength: 1.303 mm		Observing Frequency [GHz]	230	
Number of polarizations: 2 Frequency resolution: 0.192 MHz		Velocity resolution [km/s]	0.25	
Velocity resolution: 0.250 km/s		Frequency resolution [MHz]	0	
Tsys: 182.0 K Decorrelation coefficient: 0.8 On-source integration time: 5.0 hrs		Total telescope time [hrs]	8	
Number of available antennas: 9		Spatial resolution [arcsec]	11	
Antenna efficiency: 33.0 Jy/K Beam: 1.0 x 1.0 arcsec				
Conversion factor: 23.1 K[Tmb] per Jy/beam		Single field (No) / Mosaic (Yes) 🗌 No		and the second
Point source sensitivity: rms brightness temperature: 0.2 K[Tmb]		Field area [arcmin^2] 0		A States
		Single source (No) / Track-sharing (Yes) 🗌 No	)	
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I-NOEMA-SENSITIVITY, Total On-time: 5.000 hr I-NOEMA-SENSITIVITY, Total telescope time: 8.000 hr ASTRO⊳ □				State - the
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10th IRAM Interferometry School – 01-05 October 2018



### Sensitivity requirements:

\* How to calculate sensitivities and corresponding telescope time?

Are required telescope times reasonable?

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### Sensitivity requirements:

\* How to calculate sensitivities and corresponding telescope time?

\* Are required telescope times reasonable? Minimum times: overheads become important Standard Proposal: telescope times < 100h Large Proposals: >100h

Get to know NOEMA!

\* When and how to apply for time?
\* What are the technical specifications? (frequency coverage, angular/spectral resolutions, possible observing modes...)
\* What proposal categories exist?
\* What weather conditions to expect when?
\* Has my project already been done?
\* Other things to consider?

### Proposal Categories:

\* Standard Proposals (<100h): Detection (track-sharing) Mapping/Mosaic

Large Proposals (>100h)

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### \* Large Proposals (>100h)

### Proposal Categories:

 \* Standard Proposals (<100h): Detection (track-sharing) Mapping/Mosaic

\* Large Proposals (>100h)

Detection: Only rms noise level deciding factor

Mapping: RMS noise level AND uv-coverage deciding factor

### Proposal Categories:

 \* Some words on track-sharing: If sources are close enough (<15deg)! AND
 You need rather short integration times on the (#(sou)\*tobs(sou) ≤ 1-2 tracks (à ~8h)

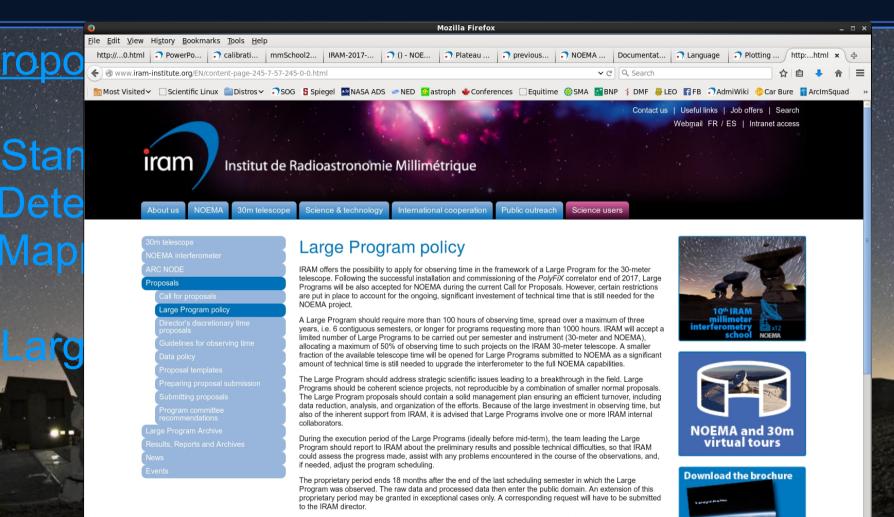
### Proposal Categories:

\* Some words on Mosaics:
- "Standard" mosaics have <50 fields</li>
- if #(fields) >> 50, different observing techniques should be considered (splitting up the mosaic into several sub-mosaics or lowering time spent per field; this all has consequences on Overheads, i.e. the total telescope time)

### Proposal Categories:

\* Standard Proposals (<100h): Detection (track-sharing) Mapping/Mosaic

### \* Large Proposals (>100h):



For further details on the submission of a Large Program, please consult the Call for Proposal web pages.

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es IRAM do

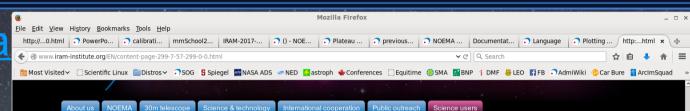
### Proposal Categories:

 \* Standard Proposals (<100h): Detection (track-sharing) Mapping/Mosaic

Large Proposals (>100h):

DDT/ToO projects: If urgent in time! Decision will be taken by the director

### Proposa



## <sup>•</sup> Standa Detecti Mappin

oposals

rector's discretionarv time



#### Director's Discretionary Time Proposals

#### Which proposals qualify for a DDT request

A small fraction of the available observing time at the NOEMA interferometer and the 30-meter telescope can be assigned to Director's Discretionary Time Proposals (DDT).

A DDT proposal must fulfill at least one of the following criteria:

- Proposals of Target-of-Opportunity (ToO) nature requiring the immediate observation of an unanticipated, short-lived astronomical event;
- Proposals that are urgent either addressing highly competitive scientific topics or asking for observations that will lead to break-through results or requesting follow-up observations of recent discoveries using ground or space facilities that require urgent complementary IRAM data.
   Proposals testing news ideas or including an element of risk that can be tested with small amounts of
- Proposals testing news ideas or including an element of risk, that can be tested with small amounts of
  observing time

#### How to submit a DDT Proposal

DDT proposals may be submitted any time through the new Proposal Management System (PMS). This tool replaces the previous e-mail submission, which will not be accepted anymore. Proposers will have to create a PMS account once to be able to login and prepare/submit their proposals. To do so, just click on the link above and follow the instructions on-screen.

The submission procedure consists in filling in an on-line form with the details of the requested observations (source coordinates, receiver setups, array configuration, etc.), and to upload a single file in pdf format containing the scientific justification. A LATEX template is provided from the PMS submission page for your convenience. You may customize this file, or generate the pdf file with another software, but in any case proposers should respect that the proposal may contain up to two pages of text describing the scientific aims and the technical justification plus up to two pages of figures, tables, and references, and that the proposal should include a clear justification why the program should be considered for DDT allocation and was not submitted for the regular proposal deadline. Please indicate on the proposal web form if the proposed DDT observations are related to a previous or an on-going IRAM program. If so, the corresponding proposal number should be indicated.

For a proposal to be complete, PMS requires that all authors validate their identity (e-mail and affiliation) and their participation to the proposal. The editor of the proposal will have to send invitations to all authors through PMS by clicking an invitation button. Authors will then receive an e-mail asking them to validate their contact information already entered in PMS by the proposal editor. This does not require the authors to create an account in PMS.

#### **Proposal evaluation**

DDT proposals will be evaluated in swift manner, in particular the ToO proposals. For other DDT proposals, please provide a minimum of two weeks notice for the time requested.

Please note that within one month following the observations, the PI of an accepted DDT proposal should submit a feedback report to the IRAM Director (ddt@iram.fr).













Get to know NOEMA!

\* When and how to apply for time?
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\* What proposal categories exist?
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\* Has my project already been done?
\* Other things to consider?

### **Checking Archival Data:**



30m telescope
NOEMA interferomete
ARC NODE

#### ata policy

#### The IRAM data policy is as follows:

- · IRAM organizes storage of raw and online calibrated data for the 30m telescope and storage of raw data for NOEMA/PdB on unlimited time scales. 1991 can be found at the CDS (Centre de
- Hea HULLOL EGB/NOEMA obse connées astronomiques de Strashourg)
- http://vizier.u-strasbg.fr/viz-bin/VizieR-3?-source=B/iram/pdbi ader information of 30m observations later than 2009 can und at the CDS
- · Observing programs are distinguished between normal programs and large programs. Data from large programs are public in reduced format after an 18 month proprietary period (counting from the end of the last semester of observations) and are accessible through the IRAM Large Program archive.
- Raw data from NOEMA/PdBI or online calibrated data from the 30m telescope of individual normal programs may be provided by IRAM after a three year proprietary period (again counting from the end of the last semester of observations) and depending on directors decision. Multiple large scale requests are excluded

IRAM does not provide support for data reduction of such retrieved data. Referencing of these data should follow the standard IRAM reference (see the Data publication policies) and in addition include at least one reference to publications of the PI team, or the PI name and program number in case the data have not yet been published





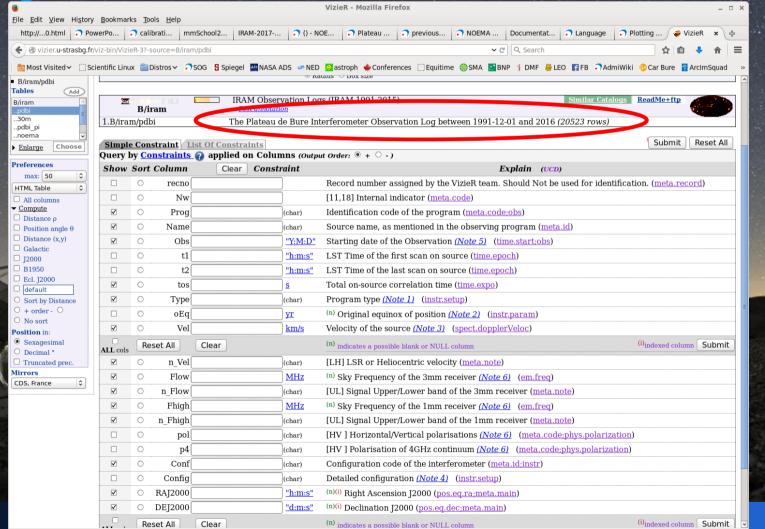


Download the brochure



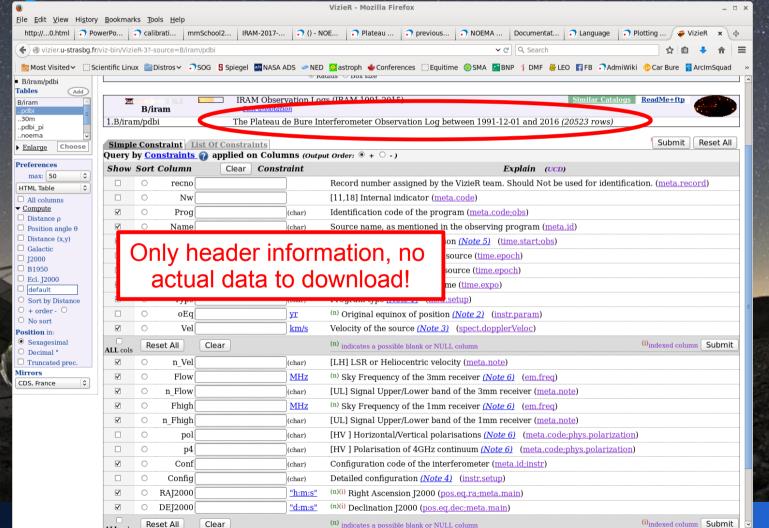






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**Checking Archival Data:** 



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# Checking Archival Data:

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pdbi pi												

- Programs are distinguished between normal programs and <u>Large Programs</u>. Data from Large Programs are public also in calibrated format after an 18 month proprietary period (counting from the end of the last semester of observations) and are accessible through the IRAM Large Program Archive.
- Raw data from PdBI/NOEMA or online calibrated data from the 30-meter telescope of individual normal programs may be provided by IRAM after a three year proprietary period (again counting from the end of the last semester of observations) and depending on Director's decision. Multiple

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arge Program Archive

#### **IRAM Large Program Archive**

The IRAM Large Program Archive (ILPA) is the collection point for research carried out at the IRAM observatories in the framework of a Large Program. The goal of ILPA is to provide images, calibrated data cubes and uv data from the 30-m telescope and the Plateau de Bure interferometer, and make these science products available to the astronomical community at the end of the regular data proprietary period. ILPA is the result of a joint effort between IRAM, the principal investigators of the Large Programs and their collaborators.

#### Large Programs:

- The HERA CO Line Extragalactic Survey HERACLES (A. Leroy, F. Walter)
- Star forming histories and gas fractions of galaxies from z=1-3 PHIBSS (R. Genzel)
- · Origins of molecular clouds and star formation in W43 W43 HERO (F. Motte, P. Schilke)
- M51: A unique laboratory to study the evolutionary sequence of GMC's PAWS (E. Schinnerer)
- IRAM chemical survey of sun-like star-forming regions ASAI (R. Bachiller, B. LeFloch)
- IRAM lensing survey: probing galaxy formation in the Early Universe (J-P, Kneib)
- · A legacy survey to study cold gas scaling laws in the local universe xCOLD GASS (A. Saintonge, G. Kauffmann, C. Kramer)
- · Class 0 protostars with PdBI : solving the angular momentum problem ?- CALYPSO (P. André)
- The complete CO(2-1) map of M33 MESSIER 33 (J. Braine, K. F. Schuster)
- Physics of gas and star formation in galaxies at z=1.2 (L. Tacconi, F. Combes)
- Molecular Gas at the Peak Epoch of Galaxy Formation PHIBSS2 (F. Combes, S. Garcia-Burillo, R. Neri, L. Tacconi, et al.)
- Fragmentation and disk formation during high-mass star formation CORE (H. Beuther)
- The EMIR Nearby Galaxy Dense Gas Survey (F. Bigiel)
- Orion B: The Anatomy of a Giant Molecular Cloud (J. Pety, M. Gerin)
- Seeds of Life in Space SOLIS (C. Ceccarelli, P. Caselli)
- · Gas phase elemental abundances in molecular clouds GEMS (A. Fuente)
- Carbon and Oxygen Isotopic Ratios in M51 (T. Saito, S. Kazimierz)
- A Legacy Survey of Molecular Gas in Powerful Nearby AGN (T. Taro Shimizu)
- Galactic star formation (N. Peretto)
- The NIKA2 cosmological legacy survey (N. Lagache, A. Beelen, N. Ponthieu) High-resolution SZ observations of a large sample of clusters of galaxies (F. Mayet, L. Perotto)
- Studying Milky Way Emission to assess Galaxy Observations (J. Kauffmann)
- · Imaging the shadows of supermassive black holes (C. Goddy)

For guestions concerning the Large Programs and access problems to the data repositories, please contact the IRAM Scientific Secretary.

Last update: November 2017





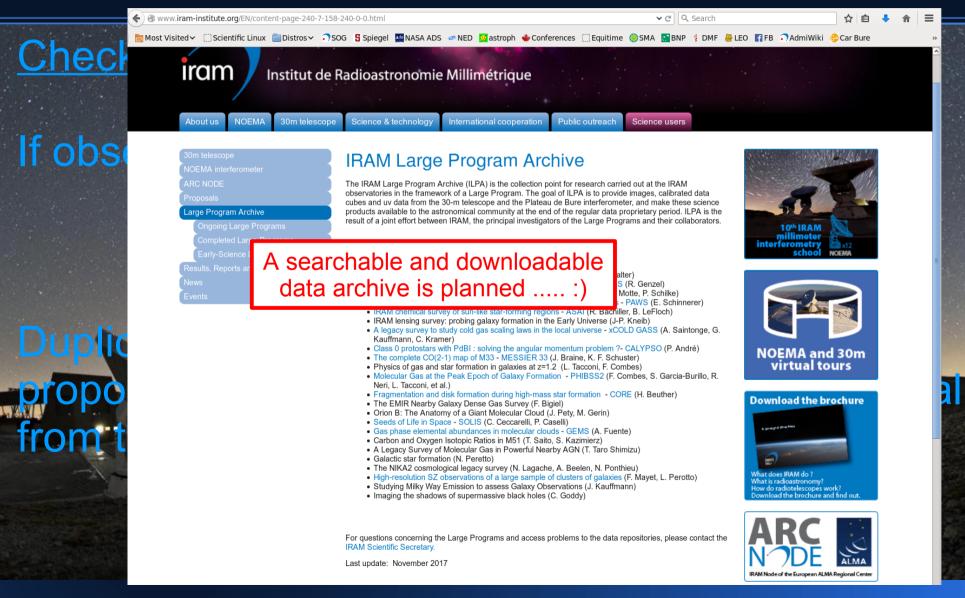
NOEMA and 30m virtual tours

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### 10th IRAM Interferometry School – 01-05 October 2018



#### 10th IRAM Interferometry School – 01-05 October 2018

**Checking Archival Data:** 

If observed lathen~2016, please contact us at: sog@iram.fr

Duplication checks will be done during the proposal reviewing process, also against proposal from the same semester

Get to know NOEMA!

\* When and how to apply for time?
\* What are the technical specifications? (frequency coverage, angular/spectral resolutions, possible observing modes...)
\* What proposal categories exist?
\* What weather conditions to expect when?
\* Has my project already been done?
\* Other things to consider?

What else to consider? \* Non-standard projects: - very large scale mosaics - projects requiring special calibration + detecting weak lines over strong continuum bandpass calibration; could maybe reach 0.5% + special needs concerning flux calibration Specific dates needed for observations? **Coordinated Observations?** 

What else to consider? PLEASE CONTACT US IN ADVANCE AT \* Non-standard projects: sog@iram.fr TO DISCUSS OBSERVING STRATEGIES - very large scale mosai - projects requiring special calibration + detecting weak lines over strong continuum bandpass calibration; could maybe reach 0.5% + special needs concerning flux calibration Specific dates needed for observations? **Coordinated Observations?** 

What else to consider? \* Non-standard projects: - very large scale mosaics - projects requiring special calibration + detecting weak lines over strong continuum bandpass calibration; could maybe reach 0.5% + special needs concerning flux calibration Specific dates needed for observations? **Coordinated Observations?** 

What else to consider? \* Non-standard projects: - very large scale mosaics - projects requiring special calibration + detecting weak lines over strong continuum bandpass calibration; could maybe reach PLEASE NOTE THAT WE CANNOT GUARANTEE TRIGGER TIMES BELOW 3 DAYS! 0.5% + special needs concerning nux campration Specific dates needed for observations? ToO? **Coordinated Observations?** 

#### **Proposal Preparation**

#### **Reviewing Process**

#### Observations

#### Data Reduction

#### **Proposal Reviewing Process:**

\* PC divided into 2 panels (30m & NOEMA): Galactic & Extra-Galactic

\* PC consists currently of 15 scientist 7 in Galactic Panel 8 in Extra-Galactic Panel PC member are specified at:

http://www.iram-institute.org/EN/content-page-187-1-187-0-0-0.html

Www.iram-institute.org/EN/content-page-187-1-187-0-0-0.html

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International cooperation

Public outreach



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Iram / Institut de Radioastronomie Millimétrique

#### IRAM Executive Council

Science & technology

(as of May 2017)

Centre National de la Recherche Scientifique (CNRS) Gabriel Chardin, INSU, France Guy Perrin, Observatoire de Paris, France Jean-Loup Puget IAS, Orsay, France

#### Max-Planck-Gesellschaft (MPG)

Reinhard Genzel MPE, Garching, Germany Karl Menten MPIfR, Bonn, Germany Markus Schleier MPG, Munich, Germany





# <sup>o</sup>C member are specified at:

#### http://www.iram-institute.org/EN/content-page-187-1-187-0-0.html

Public outreach

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iram Institut de Radioastronomie Millimétrique

# RAM Committees

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NOEMA

30m telescope



http://www.iram-instit

#### **IRAM Executive Council** (as of May 2017)

**Program Committee** 

(as of August 2018)

Science & technology

Peter Abraham, Konkoly Observatory, Budapest, Hungary Marcelino Agundez, ICMM/CSIC Madrid, Spain Javier Alcolea, OAN, Madrid, Spain Alexandre Beelen, IAS, Université Paris Sud, France Elias Brinks, Univ Hertfordshire, Hatfield, United Kingdom Nathalie Brouillet, LAB, OASU, Bordeaux, France Bruce Elmegreen, Thomas J. Watson Research Center, Yorktown Heights, NY, USA Natascha M. Foerster Schreiber, MPE, Garching bei Munich, Germany Yu Gao, CAS Purple Mountain Observatory, Nanjing, China Lee Hartmann, Univ. of Michigan, USA Francois Levrier, LERMA/ENS, Paris, France Amelie Saintonge, University College London, United Kingdom Dimitri Semenov, MPIA, Heidelberg, Germany Antonio Usero, OAN, Madrid, Spain Axel Weiss, MPIfR, Bonn, Germany



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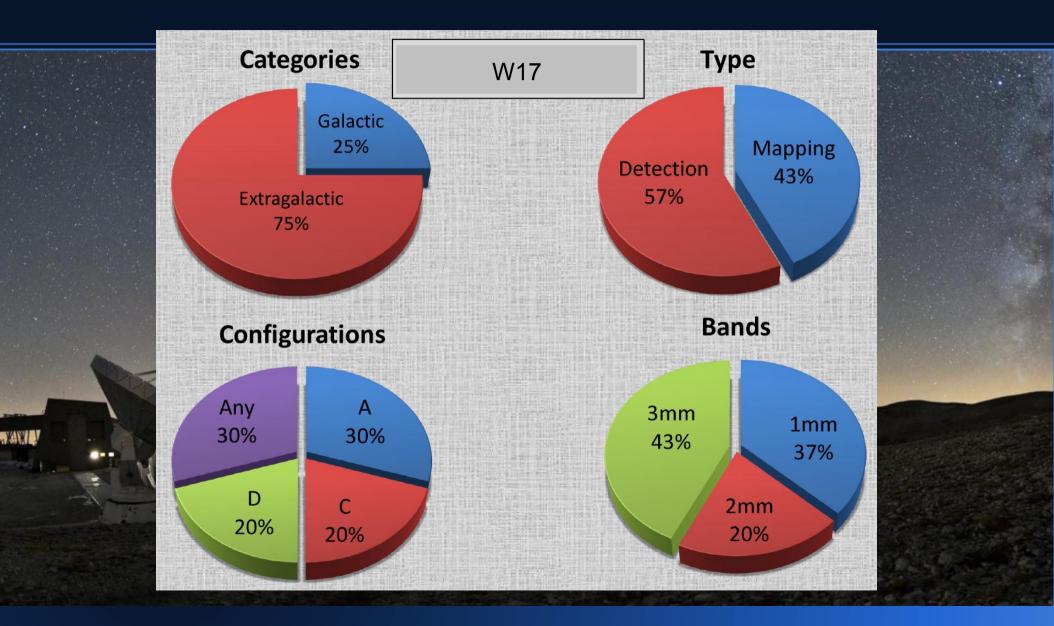


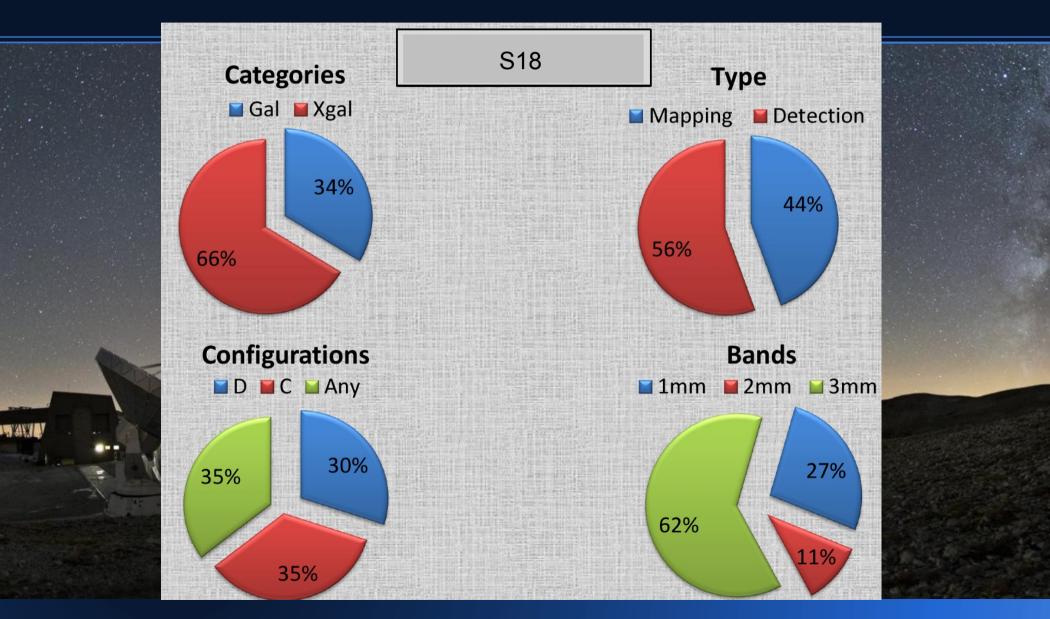
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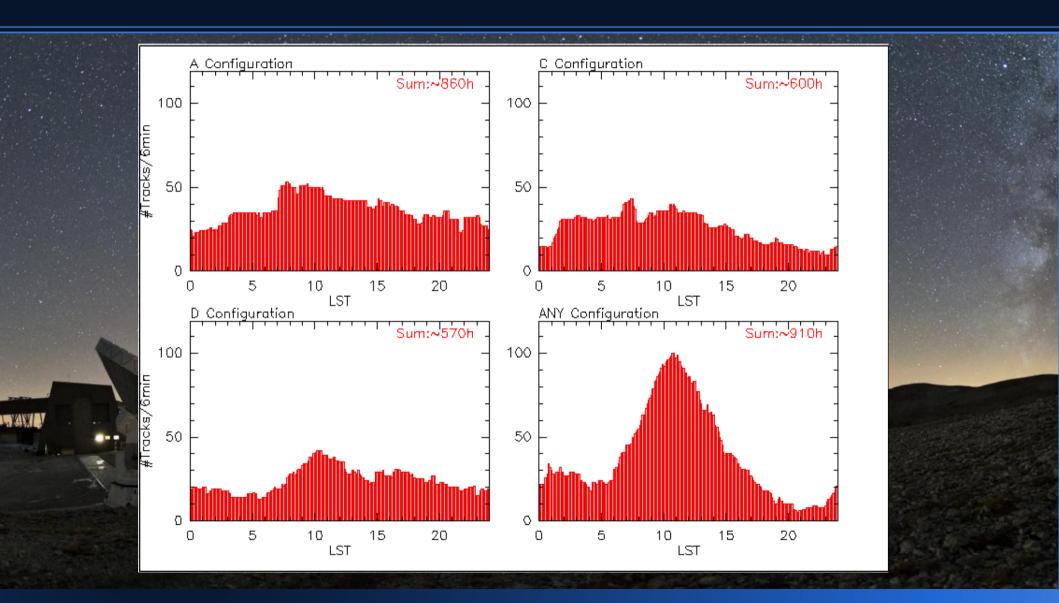
#### Proposal Reviewing Process:

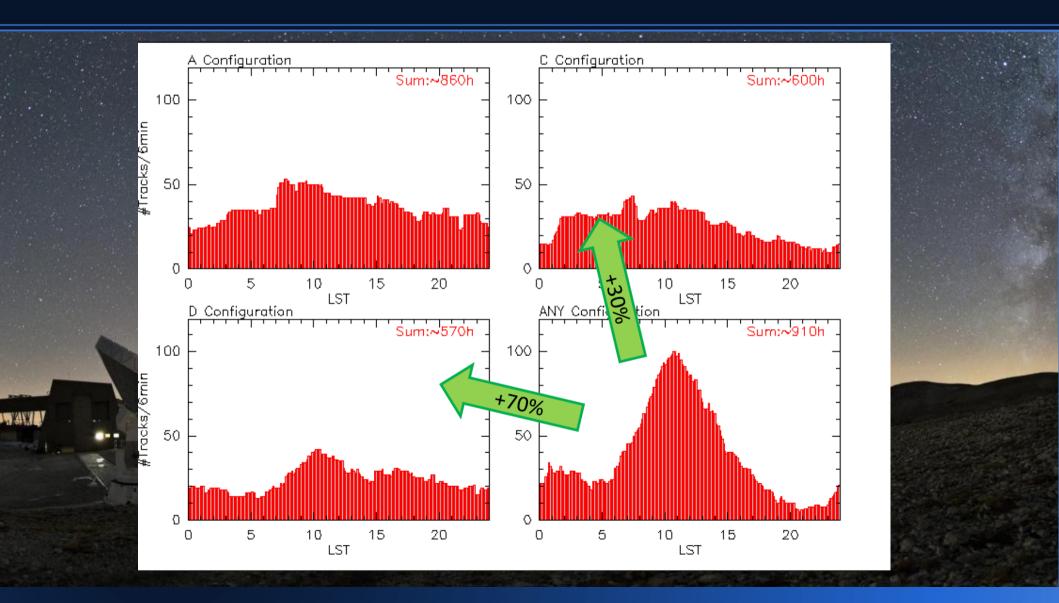
\* On average, we receive ~200-250 proposals per year at NOEMA: Summer <100 Winter ~130-150

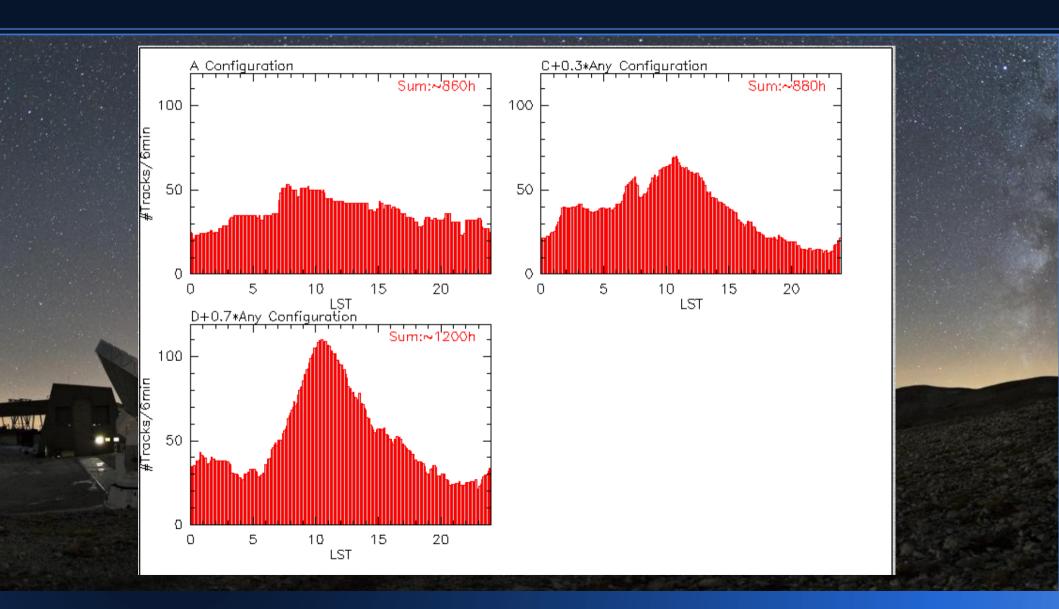
30m receives a bit less, ~200 per year!

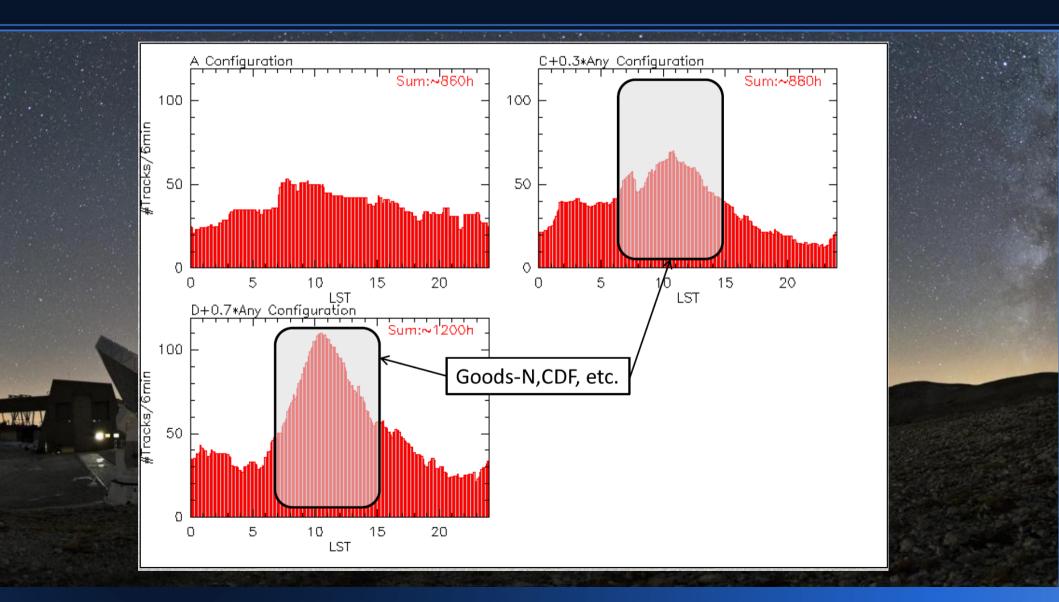


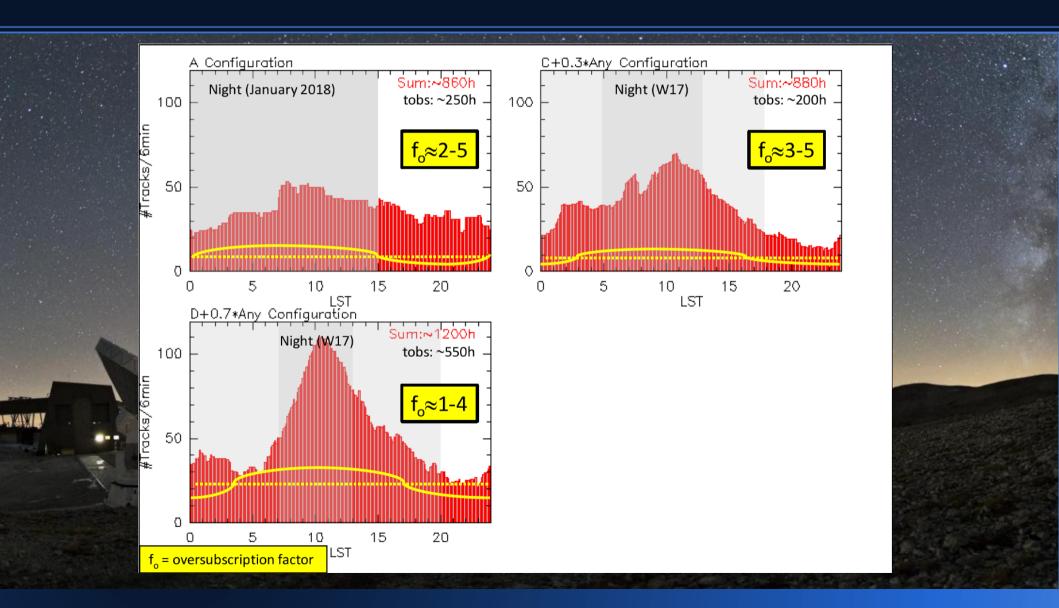












**Proposal Reviewing Process:** \* Ratings: B = will be observed, if further time becomes available taking into account scientific merit, LST pressure factors, and general aspects of balance; once started, the sub(!)-project will be finished (for most cases C = rejected = not rated (e.g. for resubmissions, if project was observed in the meantime)

Proposal Reviewing Process:

 \* Some statistics: S18 : A-rated=20%, B-rated=50%, C-rated=30% W17: A-rated=15%, B-rated=35%, C-rated=50% (but, W17 special due to continued PF Commissioning)
 S17 : A-rated=25%, B-rated=65%, C-rated=10% W16: A-rated=15%, B-rated=40%, C-rated=45%

#### Proposal Reviewing Process:

observed

Some statistics: Since S14, we observed ~65%±10% of all accepted (standard+LP) proposals (not counting DDTs (90-100%)) -> this means for B-rated projects, ~50% are

**Proposal Preparation** 

**Reviewing Process** 

**Observations** 

**Data Reduction** 

#### Preparing Observations:

\* Each accepted (i.e. B or A-rated) project WITHOUT an in-house collaborator will be assigned a LOCAL CONTACT (LC; see email, PMS, IRAM WP) or here:

http://www.iram.fr/GENERAL/loc\_mar18.txt

Please iterate on the setup with the LC (if necessary) and send your OK to the LC (without your OK scripts will NOT be put onto the schedule)

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30m telescope NOEMA interferometer Observing schedule

Data reduction

Travel to Grenoble Financial support for visit astronomers

30m telescope

Local contacts Data publication policies Data reduction and analys software Documentation Contact the SOG RC NODE roposals arge Program Archive esults, Reports and Archives ews



An IRAM staff astronomer is appointed as Local Contact to every A and B rated project without IRAM internal collaborator. He/she will assist you from the beginning to the end of your project should no IRAM astronomer be collaborating with you. Feel free to contact him/her after you get the project report with the recommendations of the program committee.

Science users

Public outreach

The role of the local contact is to help you set up the observing procedures. You should check the source coordinates and offsets for mosaics, the source velocity, the spectral configuration of the correlator and the observing frequencies. The local contact also helps you to arrange your stay in Grenoble and get started with data reduction. He/she wilk keep an eye on the data reduction and

verify the data quality. His/her and your feedback are very important to improve on the system.

International cooperation

Note also, that NOEMA is operated as a service instrument by the IRAM staff. Observations are in general carried out without your presence on the site (in absentee).

Local contacts for the current and previous periods are:

May 2018 - November 2018 December 2017 - May 2018 June 2017 - November 2017 December 2016 - May 2017 June 2016 - November 2016 December 2015 - May 2016 June 2015 - November 2015 December 2014 - May 2015 June 2014 - November 2014 December 2013 - May 2014 June 2013 - November 2013 December 2012 - May 2013 June 2012 - November 2012 December 2011 - May 2012



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#### Preparing Ob

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CfA

L ERMA

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NRAO

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S18CA

S18CB

S18CD

S18CJ

Wang

Li

Wyrowski

Bordiu

Henkel

Lisenfeld

Shangguan

0'Sullivan

Castignani

Cortzen

Morganti

Garcia-Burillo

Hunt

Wang

Roshi

Tan

Ge

Zemlyanukha/Zinche

PI	Institute	Rate	Туре	Local Contact
Pineda	MPE	А	ISM	N.Cunningham
ChacÃ <sup>3</sup> n-Tanarro	MPE	A	ISM	R.Neri
Colzi	UniversitadiFire	Α	ISM	A.Lopez-Sepulcre
Hartmann	UniMich	А	disks	V.Pietu
Omand	DepartmentofPhysic	s A	0ther	M.Bremer
Audibert	LERMA	А	XGal	N.Cunningham
Neeleman	MPIA	Α	High-z	JM.Winters
Weiss/Swinbank	MPIfR/DurhamUni	А	High-z	M.Krips
Neeleman	MPIA	Α	High-z	C.Lefevre
Combes	LERMA	Α	High-z	C.Herrera-Contreras
Daddi	IRFUSApCEA	Α	High-z	N.Cunningham
Daddi/JIN	IRFUSApCE/NJU	Α	High-z	C.Herrera-Contreras
Pavesi	CornellUniversity	А	High-z	C.Lefevre
Venemans/Yang	MPIA/StewardObs	А	High-z	C.Herrera-Contreras
Boone/Laporte	IRAP/UCL	Α	High-z	M.Krips
Qiu	UCN	В	ISM	C.Lefevre
Calvet	UniMich	В	disks	A.Castro-Carrizo
Hodges-Kluck	UniMich	В	XGal	C.Herrera-Contreras
Henshaw	MPIA	в	ISM	V.Pietu
Rigby	SchoolofPhysics	В	ISM	C.Lefevre
Nagy	MPE	В	ISM	N.Cunningham
Feher	Konkoly0bs	В	ISM	A.Castro-Carrizo
Vidal	LAB/0ASU	В	ISM	JM.Winters
Pineda	MPE	В	ISM	C.Lefevre
Mottram	MPIA	В	ISM	C.Lefevre

#### WITHOUT a LOCAL

## (without e schedule)

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#### 10<sup>th</sup> IRAM Interferometry School – 01-05 October 2018

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JM.Winters

N.Cunningham

A.Lopez-Sepulcre

C.Herrera-Contreras

C.Herrera-Contreras

C.Herrera-Contreras

A.Lopez-Sepulcre

A.Lopez-Sepulcre

#### Preparing Observations:

\* Each accepted (i.e. B or A-rated) project WITHOUT an in-house collaborator will be assigned a LOCAL CONTACT (LC; see email, PMS, IRAM WP) or here:

http://www.iram.fr/GENERAL/loc\_mar18.txt

Please iterate on the setup with the LC (if necessary) and send your OK to the LC (without your OK scripts will NOT be put onto the schedule)

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<pre>PR:SETUP-W18ZZ001.0BS ! Setup procedure for project "W18ZZ001"  PR:SETUP-W18ZZ001.0BS ! Setup procedure for project "W18ZZ001"  Potential contact: LC Potential contact: LC Project ID: W18ZZ001 Verified by: PI (date)</pre>	<pre>     ENDIF     I     LET CALIBRATOR 1 "0923+392"</pre>
Performance of the second seco	LET N_MOSAIC 0
<ul> <li>Pequested on-source time (h): 5.00</li> <li>Requested sensitivity: 1.0mJy/5000.0kHz</li> <li>Additional sensitivity: 0.02mJy/15488.0MHz</li> </ul>	I LET SOLVE_POINT YES LET SOLVE_FOCUS YES
<pre>! ! . Requested minimum S/N: ! - Reference Frequency (GHz): 114.490 ! </pre>	LET FOCUS_RECEIVER 'RECEIVER' !* ! Focusing on observing receiver LET POINT_RECEIVER 'RECEIVER' !* ! Pointing on observing receiver ! LET POINT_SOURCE 1 "0923+392" !**! 1st pointing source
H - Water Limit: Obs date constraint: Constr	LET POINT_SOURCE_2 "0851+202" !* ! 2nd pointing source LET FOCUS_SOURCE_1 "0923+392" !**! 1st focusing source LET FOCUS_SOURCE_2 "0851+202" !* ! 2nd focusing source
! - Sun avoidance: 29-JUN-2018 to 31-AUG-2018 for MYSOURCE	I I I I I I I I I I I I I I I I I I I
<pre>! - Other comments: RepFreq: 114.490 GHz USB. ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !</pre>	IINE MYLINE 114.490000 USB 9490.000 /RECEIVER 1 ■ ASEBAND HLO 1 /RECEIVER 1 BASEBAND HLI 1 /RECEIVER 1 BASEBAND HUI 1 /RECEIVER 1 BASEBAND HUI 1 /RECEIVER 1 BASEBAND VLI 1 /RECEIVER 1 BASEBAND VLI 1 /RECEIVER 1 BASEBAND VUI 1 /RECEIVER 1 BASEBAND VUI 1 /RECEIVER 1
SET\END ! Finish previous observation @ PR:defaults ! Restore defaults parameters	IF (N_SOURCES.GT.1) THEN SOURCE 'NAME SOURCE[1]' /TYPE OBJ
SET\PROJECT W18ZZ001 !**! Specify project number for further ! SYMBOL G0 "@ PR:observe-all W18ZZ001" !* ! data processing CATA SOU INTER_BASE:iram.sou !* ! CATA PHA INTER_BASE:phase-pdb.sou !* ! LET RECEIVER 1 !**! Choose observing receiver: receiver 1 @ 3mm ! I receiver 2 @ 2mm	ELSE SOURCE 'NAME'/TYPE OBJ ENDIF ! SET\RECE 'RECEIVER' ! Choose receiver band for the observation ! SET\OBS
receiver 2 g zmm receiver 3 g 1mm	! LOAD /TUNING ! Load frequency, but don't move antenna now
LET LOW_LIMIT 15. !* ! Low elevation limit 15 degrees SAV "Project 'PROJECT' starting"	! ! Make sure any changes in the spectral configuration will be detected: SET\LOCK
: SYMBOL NAME "MYSOURCE EQ 2000 08:08:08.08 31:31:31.31 LSR 0.0" !**! Source !	<pre>LET CHANGE_SPECTRAL .FALSE. !* ! .TRUE. if need to switch to broad_band !(not needed with PolyFiX)</pre>
LET N_SUBSCANS 45 !* ! Scan length (in seconds) LET N_SCANS 30 !* ! Number of scans on SOURCE (22.5 minutes = 30*45sec) LET N_SOURCES 1 !* ! use SYMBOL NAME if N_SOURCES.E0.1 IF (N_SOURCES.GT.1) THEN LET NAME_SOURCE[1:N_SOURCES] *NAME_SOURCE% !* Enter list of sources (maximum 30) LET N_SCANS_SOURCE[1:N_SOURCES] !* Enter time per source (in scans) BNDF	! IF (CHANGE_SPECTRAL) THEN SPECTRAL /BROAD ENDIF ! SET SHOW OFF !
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		- ENDIF		
<pre>PR:SETUP-W18ZZ001.0BS ! Setup procedure for project "W18ZZ001"    Date: 2018-05-31    Author: LC    PI: PI    Local contact: LC    Project ID: W18ZZ001    Verified by: PI (date) </pre>		LET CALIBRATOR_1 "0923+392" LET CALIBRATOR_2 "0851+202" LET CALIBRATOR_3 "0827+243" LET N_CALIBRATORS 2 LET N_SUBS_CAL 45 LET N_SCANS_CAL 3 LET FSWI_CAL .FALSE.	<pre>!**! flux=2.40Jy@3mm, dist=10.13deg, 08-MAR-2018 !**! flux=4.90Jy@3mm, dist=11.10deg, 10-MAR-2018 !* ! flux=0.60Jy@3mm, dist=8.90deg, 14-DEC-2015 !* ! Use 2 phase calibrators every N_SCANS !* ! Scan length on calibrator (3 scans) !* ! Nb scans on each calibrator (3 scans) !* ! No fast-switching by default</pre>	
- Rating: B - Number of telescopes assumed: 8 - Observing mode: Mapping - Observing goal: 1 Lines, 1 continuum - Time: [0.00,0.00,0.00,5.00,0.00] - Time: [0.00,0.00,0.00,5.00,0.00] (total hr os/configuration, all sources/fields combined)		LET N_MOSAIC 0 IF (N_MOSAIC.NE.0) THEN DEFINE REAL X_MOSAIC. LET X_MOSAIC LET Y_MOSAIC LET T_MOSAIC ENDIF	<pre>!* ! No mosaic mode ] Y_MOSAIC[N_MOSAIC] /GLOBAL ] *! 0ffsets in arcsec !* ! offsets in arcsec !* ! offsets in arcsec !* ! in units of N_SUBSCANS</pre>	
<ul> <li>Requested on-source time (h): 5.00</li> <li>Requested sensitivity: 1.0mJy/5000.0kHz</li> <li>Additional sensitivity: 0.02mJy/15488.0MHz</li> </ul>		! LET SOLVE_POINT YES LET SOLVE_FOCUS YES ! LET FOCUS RECEIVER 'RECEIVER'	!* ! Focusing on observing receiver	
- Requested minimum S/N: - Reference Frequency (GHz): 114.490		LET POINT_RECEIVER 'RECEIVER'	<pre>!* ! Pointing on observing receiver</pre>	
- Water limit: - Obs date constraint:		LET POINT_SOURCE_1 "0923+392" LET POINT_SOURCE_2 "0851+202" LET FOCUS_SOURCE_1 "0923+392" LET FOCUS_SOURCE_2 "0851+202"	<pre>!**! 1st pointing source !* ! 2nd pointing source !**! 1st focusing source !* ! 2nd focusing source</pre>	
- Sun avoidance: 29-JUN-2018 to 31-AUG-2018 for MYSOURCE		! SET\UNLOCK		
- Other comments: RepFreq: 114.490 GHz USB. Do not edit directly, but copy first then All lines marked !**! must be customized. lines marked !* L can be modified		LINE MYLINE 114.490000 USB 9490.0 BASEBAND HLD 1 /RECEIVER 1 BASEBAND HLI 1 /RECEIVER 1 BASEBAND HUI 1 /RECEIVER 1 BASEBAND HUI 1 /RECEIVER 1 BASEBAND VUI 1 /RECEIVER 1 BASEBAND VUI 1 /RECEIVER 1 BASEBAND VUI 1 /RECEIVER 1	000 /RECEIVER 1	
SET\END ! Finish previous observation		BASEBAND VUO 1 /RECEIVER 1		
@ PR:defaults ! Restore defaults parameters ! SETVPROJECT W18ZZ001 !**! Specify project number for further		IF (N_SOURCES.GT.1) THEN SOURCE 'NAME_SOURCE[1]' /TYPE ( ELSE SOURCE 'NAME' /TYPE OBJ	CBD	
SYMBOL GO "@ PR:observe-all W18ZZ001" !* ! data processing CATA SOU INTER BASE:iram.sou !* ! CATA PHA INTER BASE:phase-pdb.sou !* ! LET RECEIVER 1 !**! Choose observing receiver: receiver 1 @ 3mm		ENDIF ! SET\RECE 'RECEIVER' ! Choose reco !	eiver band for the observation	
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#### 10th IRAM Interferometry School – 01-05 October 2018

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	C ENDIF
<pre>PR:SETUP-W18ZZ001.0BS ! Setup procedure for project "W18ZZ001" - Date: 2018-05-31 - Author: LC - PI: PI - Local contact: LC - Project ID: W18ZZ001 - Verified by: PI (date)</pre>	!       It CALIBRATOR 1 "0923+392"       !**! flux=2.40Jy@3mm, dist=10.13deg, 08-MAR-2018         LET CALIBRATOR 2 "0851+202"       !**! flux=4.90Jy@3mm, dist=11.10deg, 19-MAR-2018         LET CALIBRATOR 3 "0827-243"       !* ! flux=6.60Jy@3mm, dist=8.90deg, 14-DEC-2015         LET CALIBRATOR 3 "0827-243"       !* ! flux=6.60Jy@3mm, dist=8.90deg, 14-DEC-2015         LET N_GALIBRATOR 5 2       !* ! Vse 2 phase calibrators every N_SCANS         LET N_SUBS_CAL 45       !* ! Scan length on calibrator (in seconds)         LET N_SCANS_CAL 3       !* ! Nb scans on each calibrator (3 scans)         LET FSWI_CAL       .FALSE.         LET FSWI_CAL       .FALSE.
!     - Rating:     B       !     - Number of telescopes assumed:     8       !     - Observing mode:     Mapping       !     - Observing goal:     1 lines, 1 continuum       !     - Time:     [0.00,0.00,0.00,5.00,0.00]       !     - Time:     [0.00,0.00,0.00,figuration, all sources/fields combined]	LET N_MOSAIC 0 !* ! No mosaic mode IF (N_MOSAIC.NE.0) THEN DEFINE REAL X_MOSAIC[N_MOSAIC] Y_MOSAIC[N_MOSAIC] /GLOBAL LET X_MOSAIC !* ! offsets in arcsec LET Y_MOSAIC !* ! offsets in arcsec LET Y_MOSAIC !* ! offsets in arcsec
<pre>! - Requested on-source time (h): 5.00</pre>	
! ! - Requested sensitivity: 1.0mJy/5000.0kHz ! - Additional sensitivity: 0.02mJy/15488.0MHz	LET SOLVE_POINT YES LET SOLVE_FOCUS YES !
- Requested minimum S/N: - Reference Frequency (GHz): 114.490	LET FOCUS_RECEIVER 'RECEIVER'   ! ! Focusing on observing receiver LET POINT_RECEIVER 'RECEIVER' ! ! Pointing on observing receiver ! ! DOINT_COURCE   #0000-000
- Water limit: ! - Obs date constraint:	LET POINT_SOURCE_1 "9923+392"       !**! 1st pointing source         LET POINT_SOURCE_2 "0851+202"       !*! 2nd pointing source         LET FOCUS_SOURCE_1 "0923+392"       !*! 1st focusing source         LET FOCUS SOURCE 2 "0851+202"       !*! 2nd pointing source
- Sun avoidance: 29-JUN-2018 to 31-AUG-2018 for MYSOURCE	setvunlock
<pre>i - Other comments: RepFreq: 114.490 GHZ USB. i - Other comment</pre>	<pre>interverse interverse interv</pre>
SYMBOL NAME "MYSOURCE EQ 2000 08:08:08.08 31:31:31.31 LSR 0.0" !**! Source	! Make sure any changes in the spectral configuration will be detected: SET\LOCK
I LET N_SUBSCANS 45 I* I Scan length (in seconds) LET N_SCANS 30 I* I Number of scans on SOURCE (22.5 minutes = 30*45sec) LET N_SOURCES 1 I* I use SYMBOL NAME if N_SOURCES.E0.1 IF (N_SOURCES,GT.1) THEN LET NAME_SOURCE[1:N_SOURCES] NAME _SOURCE% I* Enter list of sources (maximum 30) LET N_SCANS_SOURCE[1:N_SOURCES] I* Enter time per source (in scans) ENTF	LET CHANGE_SPECTRAL .FALSE. !* ! .TRUE. if need to switch to broad_band !(not needed with PolyFiX) I (CHANGE_SPECTRAL) THEN SPECTRAL /BROAD ENDIF I SET SHOW OFF I V TYPE PR:clean.obs
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PR:SETUP-W18ZZ001.0BS ! Setup procedure for project "W18ZZ001"		ENDIF		
<pre>     Date: 2018-05-31     - Author: LC     - PI: PI     LC     LC     - Poject 1D: W18Z2001     Verified by: PI (date) </pre>		LET N_SUBS_CAL 45	!**! flux=2.40Jy@3mm, dist=10.13deg, 08-MAR-2018 !**! flux=4.90Jy@3mm, dist=11.10deg, 19-MAR-2018 !* ! flux=6.60Jy@3mm, dist=8.90deg, 14-DEC-2015 !* ! Use 2 phase calibrators every N_SCANS !* ! Use 1 ength on calibrator (in seconds) !* ! Nscans on each calibrator (3 scans)	
! - Number of telescopes assumed: 8		LET FSWI_CAL .FALSE.	!* ! No fast-switching by default	
<pre>! - Observing mode: Detection / track-sharing 4 sources ! - Observing goal: 1 lines, 1 continuum</pre>		LET N_MOSAIC 0 IF (N_MOSAIC.NE.0) THEN	!* ! No mosaic mode	
<pre>! - Time: [0.00,0.00,0.00,0.00,0.00] ! (total hr os/configuration, all sources/fields combined) ! - Requested on-source time (h): 10.00</pre>		DEFINE REAL X_MOSAIC[N_MOSAIC] LET X_MOSAIC LET Y_MOSAIC LET T_MOSAIC	Y_MOSAIC[N_MOSAIC] T_MOSAIC[N_MOSAIC] /GLOBAL !* ! offsets in arcsec !* ! offsets in arcsec !* ! in units of N_SUBSCANS	
! - ! - Requested sensitivity: 1.4mJy/5000.0kHz		ENDIF !		
! - Additional sensitivity: 0.03mJy/15488.0MHz !		LET SOLVE_POINT YES LET SOLVE_FOCUS YES		
! - Requested minimum S/N: ! - Reference Frequency (GHz): 114.490 ! Motors limit			!* ! Focusing on observing receiver !* ! Pointing on observing receiver	
! - Water limit: ! - Obs date constraint:		LET POINT_SOURCE_1 "0923+392"	!**! 1st pointing source	
! ! - Sun avoidance: 29-JUN-2018 to 31-AUG-2018 for MYSOURCE1		LET FOCUS_SOURCE_1 "0923+392"	!* ! 2nd pointing source !**! 1st focusing source	
!         29-JUN-2018 to 31-AUG-2018 for MYSOURCE2           !         29-JUN-2018 to 31-AUG-2018 for MYSOURCE3           !         29-JUN-2018 to 31-AUG-2018 for MYSOURCE4		LET FOCUS_SOURCE_2 "0851+202" ! SET\UNLOCK	!* ! 2nd focusing source	
! - Other comments: RepFreq: 114.490 GHz USB.		IINE MYLINE 114.490000 USB 9490.00 BAS⊟BAND HLO 1 /RECEIVER 1 BASEBAND HLI 1 /RECEIVER 1 BASEBAND HUI 1 /RECEIVER 1	0 /RECEIVER 1	
to not edit directly, but copy first then     All lines marked !**! must be customized.     lines marked !* ! can be modified.	naring	BASEBAND HUO 1 /RECEIVER 1 BASEBAND VLO 1 /RECEIVER 1 BASEBAND VLI 1 /RECEIVER 1 BASEBAND VUI 1 /RECEIVER 1 BASEBAND VUO 1 /RECEIVER 1		
I SETLEND I Finish previous observation @ PR:defaults I Restore defaults parameters	2	! IF (N_SOURCES.GT.1) THEN SOURCE 'NAME_SOURCE[1]' /TYPE OB	J	
: SET\PROJECT W18ZZ001 !**! Specify project number for further		ELSE SOURCE 'NAME' /TYPE OBJ ENDIF		
SYMBOL GO "@ PR:observe-all W18ZZ001" !* ! data processing CATA SOU NEW:w18z2000.sou !* ! CATA PHA INTER BASE: ubase_udb_sou !* !		SET\RECE 'RECEIVER' ! Choose recei	ver band for the observation	
LET RECEIVER 1 !**! Choose observing receiver: receiver 1 @ 3mm ! receiver 2 @ 2mm		SET\0BS		
receiver 3 @ 1mm		LOAD /TUNING	! Load frequency, but don't move antenna now	
: ET LOW LIMIT 15		! ! Make sure any changes in the spe SET\LOCK	ctral configuration will be detected:	
! SYMBOL NAME "MYSOURCE EQ 2000 08:08:08.08 31:31:31.31 LSR 0.0" !**! Source		! LET CHANGE_SPECTRAL .FALSE.	<pre>!* ! .TRUE. if need to switch to broad_band !(not needed with PolyFiX)</pre>	
! LET N_SUBSCANS 45 !* ! Scan length (in seconds) LET N_SCANS 28 !* ! Number of scans on SOURCE (22.5 minutes = 30*45sec) LET N_SOURCES 4 !* ! use SYMBOL NAME if N_SOURCES.E0.1 IF (N_SOURCES.C1.1) THEN LET NAME_SOURCE[1:N_SOURCES] "MYSOURCE1" "MYSOURCE2" "MYSOURCE3" "MYSOURCE4" !* Enter list of s urces (maximu LET N_SCANS_SOURCE[1:N_SOURCES] 8 8 8 !* Enter time per source (in scans) ENDTE		! IF (CHANGE_SPECTRAL) THEN SPECTRAL /BROAD ENDIF ! SET SHOW OFF ! TYPE PR:clean.obs		
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↑ ! PR:SETUP-W18ZZ001.0BS ! Setup pr ! - Date: 2018-05-31 ! - Author: LC ! - PI: PI ! - Local contact: LC ! - Project ID: W18ZZ001 ! - Verified by: PI (date)	ocedure for project "W18ZZ001"			► ENDIF ! LET CALIBRATOR_1 "0923+392" LET CALIBRATOR_2 "0851+202" LET CALIBRATOR,3 "0827+243" LET N_CALIBRATORS 2 LET N_SUBS_CAL 45 LET N_SCANS_CAL 3	!**! flux=2.40Jy03mm, dist=10.13deg, 08-MAR-2018 !**! flux=4.90Jy03mm, dist=11.10deg, 19-MAR-2018 !* ! flux=0.60Jy03mm, dist=8.90deg, 14-DEC-2015 !* ! Use 2 phase calibrators every N SCANS !* ! Scan length on calibrator (in seconds) !* ! Nb scans on each calibrator (3 scans)		
				LET FSWI_CAL .FALSE.	!* ! No fast-switching by default		
<ul> <li>! - Number of telescopes assume</li> <li>! - Observing mode:</li> <li>! - Observing goal:</li> </ul>	d: 8 Detection / track-sharing 4 sources[] 1 lines, 1 continuum 10.00.0.00.0.00.10.00.0.001	<b>③</b>	w18zz(	)00.sou - emacs@	krips.iram.fr	– – ×	
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- - Requested minimum S/N: - Reference Frequency (GHz):	114.490			0:00:21.260 02:00			
<ul> <li>Water limit:</li> <li>Obs date constraint:</li> </ul>			•	0:01:22.770 03:00			
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LET RECEIVER 1	<pre>!**! Choose observing receiver: receiver 1     receiver 2     receiver 3</pre>	@ 2mm		SET\OBS ! LOAD /TUNING	! Load frequency, but don't move antenna now		
I ET LOW LIMIT 15	It I low alovation limit 15 degrees				pectral configuration will be detected:		
SAY "Project 'PROJECT' starting" !				SET\LOCK !			
! LET N_SUBSCANS 45 LET N_SCANS 28 LET N_SOURCES 4 IF (N_SOURCES.GT.1) THEN LET NAME_SOURCE(1:N_SOURCES] "	00 08:08:08.08 31:31:31.31 LSR 0.0" !**! !* ! Scan length (in seconds) !* ! Number of scans on SOURCE (22.5 minut !* ! use SYMBOL NAME if N_SOURCES.EQ.1 MYSOURCE1" "MYSOURCE2" "MYSOURCE3" "MYSOUR 8 8 8 8 !* Enter time per source (in sc	es = 30*45sec) CE4" !* Enter list of s urces (maximum 30)	,	LET CHANGE_SPECTRAL .FALSE. ! IF (CHANGE_SPECTRAL) THEN SPECTRAL /BROAD ENDIF ! SET SHOW OFF !	<pre>!* ! .TRUE. if need to switch to broad_band !(not needed )</pre>	vith PolyFiX)	
	(Fundamental)			✓ TYPE PR:clean.obs : setup-temp.obs 50% L98	(Fundamental)		
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<pre> PR:SETUP-W18ZZ001.0BS ! Setup procedure for project "W18ZZ001"  Provide the setup procedure for project "W18ZZ001"  Provide the setup procedure for project "W18ZZ001"  Provide the setup provide the setup</pre>	ENDIF         !         LET CALIBRATOR_1 "0923+392"       !**! flux=2.40Jy@3mm, dist=10.13deg, 08-MAR-2018         LET CALIBRATOR_2 "0051+202"       !**! flux=4.90Jy@3mm, dist=11.10deg, 19-MAR-2018         LET CALIBRATOR 3 "0027+243"       !*'! flux=4.90Jy@3mm, dist=8.90deg, 14-DEC-2015         LET N_CALIBRATOR 5 2       !*'! Use 2 phase calibrators every N_SCANS         LET N_SUBS CAL 45       !*'! No scans on each calibrator (in seconds)         LET N_SCANS_CAL 3       !*'! No scans on each calibrator (in seconds)
! - Project ID: W18Z2001 ≡ ! - Verified by: PI (date)	LET N_MOSAIC 2 !* ! No mosaic mode IF (N_MOSAIC.NE.0) THEN
!     - Rating:     B       !     - Observing mode:     Mapping / mosaic 2 fields       !     - Observing mode:     1 line       !     - Time:     [0.00,0.00,5.00,0.00]       !     - Time:     [0.00,0.00,5.00,0.00]       !     (total hr os/configuration, all sources/fields combined)	DEFINE REAL X_MOSAIC[N_MOSAIC] Y_MOSAIC[N_MOSAIC] T_MOSAIC[N_MOSAIC] /GLOBAL         LET X_MOSAIC       9.00       -14.00       !* ! offsets in arcsec         LET Y_MOSAIC       1.00       -4.00       !* ! offsets in arcsec         LET T_MOSAIC       1.00       -4.00       !* ! offsets in arcsec         LET T_MOSAIC       15       !* ! in units of N_SUBSCANS         ENDIF
P ! - Requested on-source time (h): 5.00 !	l:
! - Requested sensitivity: 1.0mJy/5000.0kHz ! - Additional sensitivity: 0.02mJy/15488.0MHz	LET SOLVE_FOCUS YES
! ! - Requested minimum S/N: ! - Reference Frequency (GHz): 114.490	LET FOCUS_RECEIVER 'RECEIVER' !* ! Focusing on observing receiver LET POINT_RECEIVER 'RECEIVER' !* ! Pointing on observing receiver !
- Water limit: - Obs date constraint:	LET POINT_SOURCE_1 "9923+392" !**! 1st pointing source LET POINT_SOURCE_2 "0851+202" !*! 2nd pointing source LET FOCUS_SOURCE_1 "0923+392" !**! 1st focusing source LET FOCUS_SOURCE_2 "0851+202" !*! 2nd focusing source
- Sun avoidance: 29-JUN-2018 to 31-AUG-2018 for MYSOURCE	SET_UNLOCK
<pre>! - Other comments: RepFreq: 114.490 GHz USB. ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !</pre>	LINE MYLINE 114.490000 USB 9490.000 /RECEIVER 1 BASEBAND HLO 1 /RECEIVER 1 BASEBAND HLI 1 /RECEIVER 1 BASEBAND HUI 1 /RECEIVER 1
All lines marked !**! must be customized. lines marked !* ! can be modified.	BASEBAND HUO 1 /RECEIVER 1 BASEBAND VLI 1 /RECEIVER 1 BASEBAND VLI 1 /RECEIVER 1 BASEBAND VUI 1 /RECEIVER 1 BASEBAND VUU 1 /RECEIVER 1
SET\END ! Finish previous observation @ PR:defaults ! Restore defaults parameters !	! IF (N_SOURCES.GT.1) THEN SOURCE 'NAME SOURCE[1]' /TYPE OBJ
SET\PROJECT W18ZZ001 !**! Specify project number for further !	ELSE SOURCE 'NAME' /TYPE OBJ
SYMBOL GO "@ PR:observe-all W18ZZ001" !* ! data processing CATA FOU INTER_BASE:iram.sou !* ! CATA PHA INTER_BASE:phase-pdb.sou !* ! LET RECEIVER 1 !**! Choose observing receiver: receiver 1 @ 3mm ! receiver 2 @ 2mm ! receiver 3 @ 1mm	ENDIF ! SETVRECE 'RECEIVER' ! Choose receiver band for the observation ! SETVOBS !
! LET LOW_LIMIT 15 !* ! Low elevation limit 15 degrees SAY "Project 'PROJECT' starting"	LOAD /TUNING ! Load frequency, but don't move antenna now ! ! ! Make sure any changes in the spectral configuration will be detected:
! SYMBOL NAME "MYSOURCE EQ 2000 08:08:08.08 31:31:31.31 LSR 0.0" !**! Source	SET\LOCK !
LET N_SUBSCANS 45 [* ! Scan length (in seconds) LET N_SCANS 30 [* ! Number of scans on SOURCE (22.5 minutes = 30*45sec) LET N_SOURCES 1 [* ! use SYMBOL NAME if N_SOURCES.E0.1 IF (N_SOURCES.C1.1) THEN LET NAME SOURCE[1:N_SOURCES] %NAME_SOURCE% !* Enter list of sources (maximum 30) LET N_SCANS_SOURCE[1:N_SOURCES] !* Enter time per source (in scans) BODIF	LET CHANGE_SPECTRAL .FALSE. !* ! .TRUE. if need to switch to broad_band !(not needed with PolyFiX) I F (CHANGE_SPECTRAL) THEN SPECTRAL /BROAD ENDIF SET SHOW OFF 1 V TYPE PR:clean.obs
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a !	ENDIF
PR:SETUP-W18Z2001.0BS ! Setup procedure for project "W18Z2001" - Date: 2018-05-31 - Author: LC - PT: PI - Local contact: LC - Project ID: W18Z2001	! IC CALIBRATOR_1 "0923+392" !**! flux=2.40Jy@3mm, dist=10.13deg, 08-MAR-2018 LET CALIBRATOR_2 "0851+202" !**! flux=4.90Jy@3mm, dist=11.10deg, 19-MAR-2018 LET CALIBRATOR_3 "0827+243" !* ! flux=0.60Jy@3mm, dist=9.00deg, 14-DEC-2015 LET N_CALIBRATORS 2 !* ! Use 2 phase calibrators every N_SCANS LET N_SUBS_CAL 45 !* ! Scan length on calibrator (in seconds) LET N_SCANS_CAL 3 !* ! Nb scans on each calibrator (3 scans)
<pre>     - Verified by: PI (date)     Rating:     Rating:     Number of telescopes assumed:     Observing mode:     Deserving goal:     Time:     [0.00,0.00,0.00,5.00,0.00]     (total hr os/configuration, all sources/fields combined) </pre>	LET N_MOSAIC 0 !* ! No mosaic mode IF (N_MOSAIC.NE.0) THEN DEFINE REAL X_MOSAIC[Y_MOSAIC] Y_MOSAIC[T_MOSAIC] /GLOBAL LET X_MOSAIC !* ! offsets in arcsec LET Y_MOSAIC !* ! offsets in arcsec LET T_MOSAIC !* ! in units of N_SUBSCANS ENDIF
<pre>! - Requested on-source time (h): 5.00 ! ! - Requested sensitivity: 1.0mJy/5000.0kHz</pre>	I LET SOLVE_POINT YES LET SOLVE_FOCUS YES
! - Additional sensitivity: 0.02mJy/15488.0MHz ! ! - Requested minimum S/N: ! - Reference Frequency (GHz): 114.490	! LET FOCUS_RECEIVER 'RECEIVER' !* ! Focusing on observing receiver LET POINT_RECEIVER 'RECEIVER' !* ! Pointing on observing receiver
! ! - Water limit:	LET POINT_SOURCE_1 "0923+392" !**! 1st pointing source LET POINT_SOURCE_2 "0851+202" !* ! 2nd pointing source LET FOCUS_SOURCE_1 "0923+392" !**! 1st focusing source LET FOCUS_SOURCE_2 "0851+202" !* ! 2nd focusing source !
- Sun avoidance: - Other comments: Do not edit directly, but copy first the All Lines marked !**! must be customized. Lines marked !* ! can be modified.	ILINE MYLINE 114.490000 USB 9490.000 /RECEIVER 1 BASEBAND HLO 1 /RECEIVER 1 BASEBAND HUI 1 /RECEIVER 1 BASEBAND HUO 1 /RECEIVER 1 BASEBAND HUO 1 /RECEIVER 1 BASEBAND VLO 1 /RECEIVER 1 BASEBAND VLO 1 /RECEIVER 1 BASEBAND VLO 1 /RECEIVER 1
SETVEND ! Finish previous observation @ PR:defaults ! Restore defaults parameters !	BASEBAND VUO 1 /RECEIVER 1 ! IF (N_SOURCES.GT.1) THEN SOURCE 'NAME SOURCE[1]' /TYPE OBJ
SET\PROJECT W18ZZ001 !**! Specify project number for further ! SYMBOL 60 "@ PR:observe-all W18ZZ001" !* ! data processing	ELSE SOURCE 'NAME' /TYPE OBJ ENDIF
CATA SOU INTER_BASE:iram.sou !* ! CATA PHA INTER_BASE:phase-pdb.sou !* ! LET RECEIVER 1 !**! Choose observing receiver: receiver 1 @ 3mm ! receiver 2 @ 2mm ! receiver 3 @ 1mm	SET\RECE 'RECEIVER' ! Choose receiver band for the observation ! SET\OBS !
! LET LOW_LIMIT 15. !* ! Low elevation limit 15 degrees SAY "Project 'PROJECT' starting"	LOAD /TUNING ! Load frequency, but don't move antenna now ! ! Make sure any changes in the spectral configuration will be detected: SET\LOCK
SYMBOL NAME "MYSOURCE EQ 2000 08:08:08.08 31:31:31.31 LSR 0.0" !**! Source	
! LET N_SUBSCANS 45 !* ! Scan length (in seconds) LET N_SCANS 30 !* ! Number of scans on SOURCE (22.5 minutes = 30*45sec) LET N_SOURCES 1 !* ! use SYMBOL NAME if N_SOURCES.0.1 IF (N_SOURCES.GT.1) THEN LET NAME_SOURCE[1:N_SOURCES] %NAME_SOURCE% !* Enter list of sources (maximum 30) LET N_SCANS_SOURCE[1:N_SOURCES] !* Enter time per source (in scans) BNDIF	IF (CHANGE SPECTRAL) THEN SPECTRAL /BROAD ENDIF I SET SHOW OFF I
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<pre> PR:SETUP-W18ZZ001.0BS ! Setup procedure for project "W18ZZ001" PR:SETUP-W18ZZ001" Pathor: L0 Author: LC PI: PI: PI Cord contact: LC Pi: Pi: PI N18ZZ001</pre>		► ENDIF ! LET CALIBRATOR_1 "0923+392" !**! flux=2.40Jy@3mm, dist=10.13deg, 08-MAR-2018 LET CALIBRATOR_2 "0851+202" !**! flux=4.90Jy@3mm, dist=11.10deg, 19-MAR-2018 LET CALIBRATOR_3 '0827+243" !**! flux=4.90Jy@3mm, dist=8.90deg, 14-DEC-2015 LET N_CALIBRATORS 2 !**! Use 2 phase calibrators every N_SCANS LET N_SUBS_CAL 45 !**! Scan length on calibrator (in seconds) LET N_SCANS_CAL 3 !**! Nb scans on each calibrator (3 scans)
<pre>i - Project D: Nobelvoi i - Verified by: PI (date) i - Rating: B i - Number of telescopes assumed: 8 i - Observing mode: Appping i - Observing goal: 1 lines, 1 continuum i - Time: [0.00,0.00,0.00,0.00] (total hr os/configuration, all sources/fields combined)</pre>	Correlator S	LET FSWI_CAL .FALSE. !* ! No fast-switching by default LET N_MOSAIC 0 !* ! No mosaic mode F (N_MOSAIC.NE.0) THEN !* ! No mosaic[N_MOSAIC] /GLOBAL Offsets in arcsec in units of N_SUBSCANS
! - Requested on-source time (h): 5.00	(horo only l	D beechande)
I - Requested sensitivity: 1.0mJy/5000.0kHz I - Additional sensitivity: 0.02mJy/15488.0MHz	(nere only L	
- Requested minimum S/N: - Reference Frequency (GHz): 114.490		LET FOCUS_RECEIVER 'RECEIVER' !* ! Focusing on observing receiver LET POINT_RECEIVER 'RECEIVER' !* ! Pointing on observing receiver ! LET POINT_SOURCE_1 "0923+392" !**! 1st pointing source
<pre>! - Water limit: ! - Obs date constraint: !</pre>		LET POINT_SOURCE_2 "0851+202" !* ! 2nd pointing source LET FOCUS_SOURCE_1 "0923+392" !**! 1st focusing source LET FOCUS SOURCE 2 "0851+202" !**! 2nd focusing source
! - Sun avoidance: 29-JUN-2018 to 31-AUG-2018 for MYSOURCE		
<pre>! - Other comments: RepFreq: 114.490 GHz USB. ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !</pre>		I LIME MYLINE 114.490000 USB 9490.000 /RECEIVER 1 BASEBAND HLO 1 /RECEIVER 1 BASEBAND HUI 1 /RECEIVER 1 BASEBAND HUI 1 /RECEIVER 1 BASEBAND VUO 1 /RECEIVER 1 BASEBAND VUO 1 /RECEIVER 1 BASEBAND VUI 1 /RECEIVER 1 BASEBAND VUI 1 /RECEIVER 1
SET\END ! Finish previous observation		DASEDARD VOU I /RECEIVEN I
<pre>@ PR:defaults</pre>		SOURCE 'NAME_SOURCE[1]' /TYPE OBJ ELSE SOURCE 'NAME' /TYPE OBJ ENDIF ! SET\RECE 'RECEIVER' ! Choose receiver band for the observation ! SET\RECE 'RECEIVER' ! Choose receiver band for the observation
! receiver 3 @ 1mm ! LET LOW_LIMIT 15. !* ! Low elevation limit 15 degrees SAY 'Project 'PROJECT' starting" !		! LOAD /TUNING ! Load frequency, but don't move antenna now ! ! Make sure any changes in the spectral configuration will be detected: SET\LOCK
SYMBOL NAME "MYSOURCE EQ 2000 08:08:08.08 31:31:31.31 LSR 0.0" !**! Source		! LET CHANGE SPECTRAL .FALSE. !* ! .TRUE. if need to switch to broad band !(not needed with PolyFiX)
LET N_SUBSCANS 45 !* ! Scan length (in seconds) LET N_SCANS 30 !* ! Number of scans on SOURCE (22.5 minutes = 30*45sec) LET N_SOURCES 1 !* ! use SYMBOL NAME if N_SOURCES.E0.1 IF (N_SOURCES.GT.1) THEN LET NAME_SOURCE[1:N_SOURCES] *NAME_SOURCE% !* Enter list of sources (maximum 30) LET N_SCANS_SOURCE[1:N_SOURCES] !* Enter time per source (in scans) ENDIF		I F (CHANGE_SPECTRAL) THEN SPECTRAL /BROAD ENDIF I SET SHOW OFF
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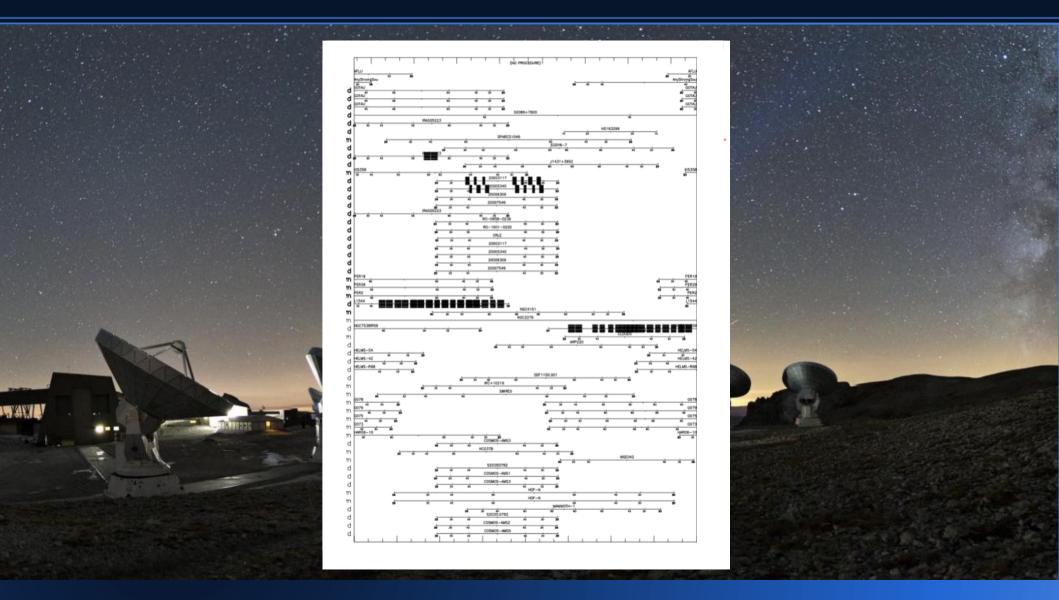
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<pre># Step # 41200.4.06 1 Step spreaders for project * 141200.*</pre>	🕒 🖴 📾 🗙 🖄 😼 🛸 🖡 🛱 🚔 📾 😡			
<pre>i All Lines marked !*! mark bound ivel, ines marked !*! can be modified. SPM /CHUNK 28 TO 12 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 28 TO 13 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 28 TO 14 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 28 TO 14 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 28 TO 14 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 28 TO 14 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 28 TO 14 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 28 TO 14 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 28 TO 14 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 28 TO 14 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 28 TO 14 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 28 TO 14 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 28 TO 14 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 28 TO 15 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 14 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 14 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 14 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 14 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 14 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 14 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 14 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 14 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 14 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 14 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 14 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 14 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 15 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 35 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 35 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 35 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 35 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 35 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 35 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 35 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 35 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 35 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 35 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 35 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 35 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 35 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 35 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 35 / ASEEMAN VLI /RECEIVER 1 SPM /CHUNK 38 TO 35 / ASEEMAN VLI /R</pre>	PR:SETUP-W18ZZ001.085 ! Setup procedure for project "W18ZZ001"          - Date:       2018-05-31         - Author:       LC         - PT:       PT         - Coal contact: LC         - Project ID:       W18ZZ001         - Rating:       B         - Number of telescopes assumed:       8         - Observing goal:       1 lines, 1         - Time:       [0.00,0.0e]         (total hr       Correlator Setup         - Time:       [0.00,0.0e]         - Additional sensitivity:       1.0mJy/500         - Requested on-source time (h): 5.00       0.02mJy/15         - Requested minimum S/N:       - Reference Frequency (GH2):         - Reguested minimum S/N:       - Reference Frequency (GH2):         - Water limit:       - Obs date constraint:         - Sun avoidance:       29-JUN-2018 to 31-AUG-2018 for MYSOURCE         - Other comments:       RepFreq: 114.490 GHz USB.		BASEBAND HLO 1 /RECEIVER 1 BASEBAND HLO 1 /RECEIVER 1 BASEBAND HLO 1 /RECEIVER 1 BASEBAND HLI 1 /RECEIVER 1 BASEBAND VLO 1 /RECEIVER 1 SPW /CHUNK 33 TO 34 /BASEBAND HLO /RECEIVER 1 SPW /CHUNK 33 TO 34 /BASEBAND HLO /RECEIVER 1 SPW /CHUNK 33 TO 34 /BASEBAND HLO /RECEIVER 1 SPW /CHUNK 35 TO 35 / BASEBAND HLO /RECEIVER 1 SPW /CHUNK 35 TO 34 /BASEBAND HLO /RECEIVER 1 SPW /CHUNK 35 TO 34 /BASEBAND HLO /RECEIVER 1 SPW /CHUNK 35 TO 34 /BASEBAND HLI /RECEIVER 1 SPW /CHUNK 35 TO 35 /BASEBAND HLI /RECEIVER 1 SPW /CHUNK 35 TO 36 /BASEBAND HUI /RECEIVER 1 SPW /CHUNK 35 TO 36 /BASEBAND HUO /RECEIVER 1 SPW /CHUNK 35 TO 36	
▼ ! Make sure any changes in the spectral configuration will be detected:	<pre>! lines marked !* ! can be modified. !</pre>		<pre>SPW /CHUNK 30 TO 31 /BASEBAND VLI /RECEIVER 1 SPW /CHUNK 43 TO 44 /BASEBAND VUI /RECEIVER 1 SPW /CHUNK 43 TO 44 /BASEBAND VUI /RECEIVER 1 SPW /CHUNK 33 TO 40 /BASEBAND VUI /RECEIVER 1 SPW /CHUNK 33 TO 40 /BASEBAND VUI /RECEIVER 1 SPW /CHUNK 37 TO 38 /BASEBAND VUI /RECEIVER 1 SPW /CHUNK 34 TO 35 /BASEBAND VUI /RECEIVER 1 SPW /CHUNK 34 TO 35 /BASEBAND VUI /RECEIVER 1 SPW /CHUNK 34 TO 35 /BASEBAND VUI /RECEIVER 1 SPW /CHUNK 34 TO 35 /BASEBAND VUI /RECEIVER 1 SPW /CHUNK 4 TO 5 /BASEBAND VUO /RECEIVER 1 SPW /CHUNK 34 TO 35 /BASEBAND VUO /RECEIVER 1 SPW /CHUNK 34 TO 35 /BASEBAND VUO /RECEIVER 1 SPW /CHUNK 54 TO 55 /BASEBAND YOU /RECEIVER 1 SPW /CHUNK 54 TO 55 /BASEBAND YOU /RECEIVER 1 SPW /CHUNK 54 TO 55</pre>	

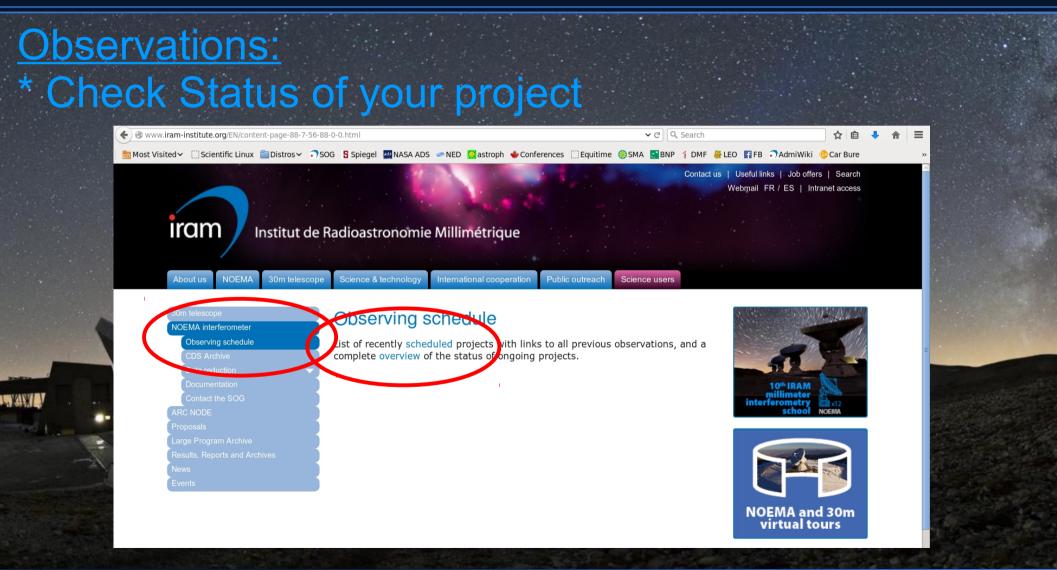
#### Preparing Observations:

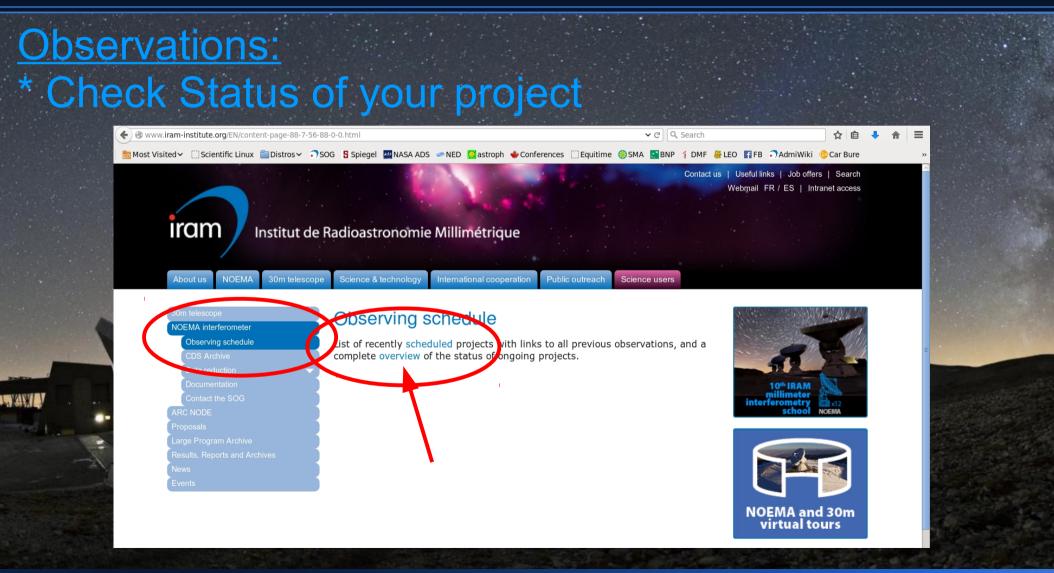
\* Each accepted (i.e. B or A-rated) project WITHOUT an in-house collaborator will be assigned a LOCAL CONTACT (LC; see email, PMS, IRAM WP) or here:

http://www.iram.fr/GENERAL/loc\_mar18.txt

Please iterate on the setup with the LC (if necessary) and send your OK to the LC (without your OK scripts will NOT be put onto the schedule)







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Current configuration is: E03-W12-W09-E16-W20-N29- N11-H03-E10 (9C) Generated automatically by sog@iram.fr on Thursday 04-Oct-2018 00:17 CEST For projects before June 2014 check here													

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#### Plateau de Bure Semester SS18

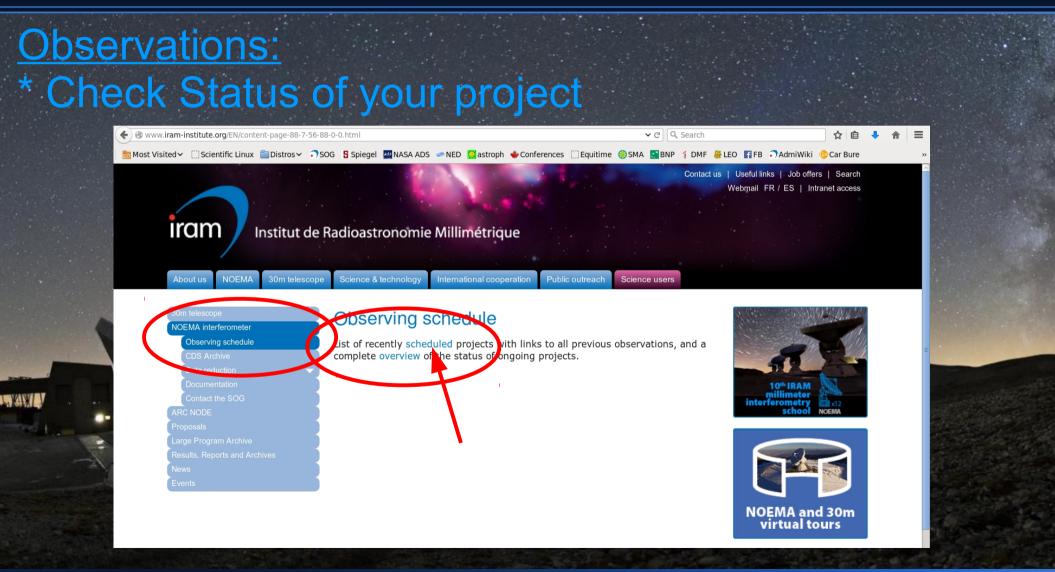
	June 2018 - November 2018											
Project	PI	LOC/co-I	Completed		Sun-Avoidance	Priority	Status					
S18AA001	Henshaw	Pietu	D CD		15-dec / 29-jan	В	Started					
S18AB001	Rigby	Lefevre		С	28-nov / 29-jan	В						
S18AC001	Nagy	Cunningham		С	01-dec / 29-jan	В						
S18AC002	Nagy	Cunningham		С	01-dec / 29-jan	В						
S18AD001	Falgarone	Herrera Contreras	D			A	Completed					
S18AE001	Feher	Castro-Carrizo		С		В						
S18AF001	Vidal	Winters		D	16-apr / 19-jun	В						
S18AG001	Pineda	Cunningham	D	С	17-apr / 21-jun	A	Started					
S18AH001	Segura-Cox	Lopez-Sepulcre		С	17-apr / 24-jun	В						
S18AH002	Segura-Cox	Lopez-Sepulcre		С	17-apr / 20-jun	В						
S18AH003	Segura-Cox	Lopez-Sepulcre		С	18-apr / 21-jun	В						
S18AJ001	Chacon-Tanarro	Neri		С	05-may / 13-jul	A						
S18AK001	Orkisz	Orkisz	D	D	24-may / 09-jul	A	Started					
S18AL001	Pineda	Lefevre	D		22-apr / 24-jun	A	Completed					
S18AL002	Pineda	Lefevre	D		22-apr / 24-jun	A	Completed					
S18AN001	Mottram	Lefevre	D			A	Completed					
S18A0001	Wang	Herrera Contreras	CD	С		В	Started					
S18AQ001	Colzi	Lopez-Sepulcre	D	С	16-may / 19-jul	A	Started					
S18AS001	Qiu	Lefevre	D			A	<u>Completed</u>					
S18AT001	Cunningham	Cunningham		С		В						
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S18AU002	Zemlyanukha, Zinchenko	Winters		CD	22-may / 29-jul	В						
S18AV001	Wyrowski	Cunningham		D	24-nov / 27-jan	В						
S18AW002	Li	Krips		D	09-dec / 28-jan	В						
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### **Project Status**

The status of <u>on-going</u> projects allows you verify in which configuration your project has already been observed and what remains to be done. This information is updated daily. You may also consult the list of <u>projects</u> belonging to the last observing period.

A time ordered list of observations carried out with the interferometer, with observing dates, project names, source names, start and ending hour angle of the observations can be accessed by clicking on the specified year. CAUTION: although the list is broken into pieces on a monthly basis, this is a BIG database: the total amounts to a few thousand pages.

• <u>1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018</u>

#### Previous Days

20-SEP-2018	10D	10D-W05	<u>518AK001</u>	HOLO	<u>S18BH001</u>	TINTTEST	<u>N17 P0</u>	IN	<u>S18CD003</u>	<u>S18AL002</u>
21-SEP-2018	10D-N17	N05E04	S18AL002	<u>S18BH001</u>	TA10REC3	<u>S18BM002</u>				
22-SEP-2018	10D-N17	10D-N17N09	<u>S18AL002</u>	TINTTEST	<u>S18CE001</u>	<u>S18BH001</u>	<u>S18DR001</u>			
23-SEP-2018	10D-N17	N05E04	<u>S18AL002</u>	<u>518CK001</u>	<u>S18CD003</u>	TA10REC3				
24-SEP-2018	10D-N17		TINTTEST	<u>S18BH001</u>	<u>S18AA001</u>	S18DG002				
25-SEP-2018	10D-N17		S18DG002	<u>S18CT001</u>	<u>S18CD001</u>	S18CD003	FLUX			
26-SEP-2018	10D-N17		FLUX	<u>518BA001</u>	<u>S18CD002</u>	<u>S18DG002</u>	BASE			
27-SEP-2018	10D-N17		HOLO	<u>518AN001</u>	<u>S18AA001</u>	<u>S18CZ002</u>				
28-SEP-2018	10D-N17	7ant-Special	<u>S18AN001</u>	<u>S18CD001</u>	<u>S18DQ001</u>	TINTTEST	HOLO	BASE	FLUX	
29-SEP-2018	9C		FLUX	S18CQ002	S18DI003	S18A0001	HOLO			
30-SEP-2018	9C		HOLO	BASE	<u>S18AJ001</u>	TINTTEST	<u>518A0001</u>			
01-0CT-2018	N11E10		TA10REC3	TINTTEST						
02-0CT-2018	E10	9C	TA10REC3	TINTTEST	<u>518A0001</u>	HOLO	<u>S18AJ001</u>			
03-0CT-2018	9C		S18AJ001	TINTTEST	S18CE003	BASE				

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**Proposal Preparation** 

**Reviewing Process** 

Observations

**Data Reduction** 

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10<sup>th</sup> IRAM Interferometry School – 01-05 October 2018

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Catherine Berjaud <berjaud@iram.fr>

Project S18AL completed -> data reduction

We are pleased to inform you that your project:

Title: Exploring the kinematics of a subsonic dense core

IRAM Reference Number:S18AL IRAM local contact: Charlene Lefèvre

has recently been observed with the NOEMA Interferometer and is now completed. As your data have been taken with the recently commissioned correlator PolyFiX, we recommend you plan a stay at IRAM/Grenoble for the calibration of your data so we can provide you with the most efficient support.

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- 3. according to the IRAM Data policy, the data of your NOEMA project will enter the public domain on 01 June 2020

Best regards, Cathy

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Remote data reduction can be possible under certain conditions, please ask your LC whether this might be a possible alternative in your case!

Best regards, Cathy

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5	S18BQ001	Lisenfeld	Neri		CD	04-jul / 05-sep	В	
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## 10th IRAM Interferometry School – 01-05 October 2018

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Catherine Berjaud <berjaud@iram.fr>

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#### Visitor Schedule

K. Schwartz, 24/09/18 - 28/09/18, W17AC, C. Lefèvre (Remote from Univ Michigan, reducV2)
M. Novak, 08/10/18 -16/10/18, W17AQ/W17EX, C. Lefèvre, C. Herrera (Grenoble, reducV1)
Q. Tan, 08/10/18 - 12/10/18, S18CA, JM. Winters (Grenoble, reducV2)
Ping Zhou, 08/10/18 - 12/10/18, W17AX, V. Pietu (Grenoble)
J. Alberto Gomez-Lopez, 15/10/18 - 19/10/18, ALMA 2015.1.00956.S, E. Chapillon (Grenoble, reducV2)
T. Csengeri, 15/10/18 - 17/10/18, W17AQ, M. Bremer (Grenoble, reducV1)
SOLIS members, 22/10/18 - 26/10/18, L15AA, A.Lopez-Sepulcre, R.Neri (Grenoble, reducv1, reducv2)
M. Jeste, 05/11/18 - 09/11/18, ALMA 2015.1.01271.S, K.T. Wong (Grenoble, reducv1)
A. Lopez, N. Cunningham, 06/11/18 - 09/11/18, ALMA-IMF large program 2017.1.01355 (Grenoble, reducV2)
R. Coogan, 12/11/18 - 16/11/18, W17DK, N. Cunningham (Grenoble, reducV1) TO BE CONFIRMED
M. Bethermin, 14/11/18 - 16/11/18, W17EG, N. Cunningham (Grenoble, reducv2)
C. Omand, 19/11/18 - 22/11/18, S18BH, M. Bremer (Grenoble, reducV2)
A. Audibert, 19/11/18 - 23/11/18, S18BW, N. Cunningham (Grenoble, reducV1)
F. Motte, 03/12/18 - 06/12/18, all workstations booked for ALMA Large Program 2017.1.01355, A. Lopez, E. Chapillon (Grenoble)
S. Browson, 17/12/18 - 21/12/18, W17CD, A. Lopez-Sepulcre (Grenoble, reducV1)

J. Goicoechea, 14/01/19 - 18/01/19, ALMA 2015.1.01082.S, E. Chapillon (Grenoble, reducV2)

#### Visitors in 2018

X. Ge, 19/09/18 - 21/09/18, S18BN, A. Lopez (Grenoble, reducV1) D. Spérone-Longin, 10/09/18 - 14/09/18, ALMA 2017.1.00257.S, K.T. Wong (reducV1)



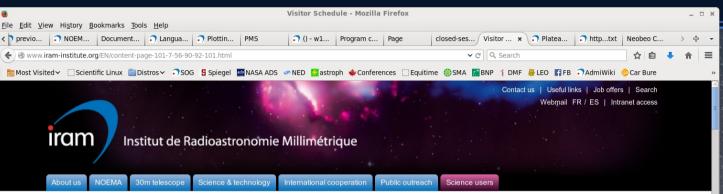


NOEMA and 30m virtual tours











#### Visitor Schedule

We prefer to host not more than 2 groups at a time! (having said that we may accept 3 groups if justified)

M. Jeste, 05/11/18 - 09/11/18, ALMA 2015.1.01271.S, K.T. Wong (Grenoble, reducv1)
A. Lopez, N. Cunningham, 06/11/18 - 09/11/18, ALMA-IMF large program 2017.1.01355 (Grenoble, reducV2)
R. Coogan, 12/11/18 - 16/11/18, W17DK, N. Cunningham (Grenoble, reducV1) TO BE CONFIRMED
M. Bethermin, 14/11/18 - 16/11/18, W17EG, N. Cunningham (Grenoble, reducV2)
C. Omand, 19/11/18 - 22/11/18, S18BH, M. Bremer (Grenoble, reducV2)
A. Audibert, 19/11/18 - 23/11/18, S18BW, N. Cunningham (Grenoble, reducV1)
F. Motte, 03/12/18 - 06/12/18, all workstations booked for ALMA Large Program 2017.1.01355, A. Lopez, E.

F. Motte, 03/12/18 - 06/12/18, all workstations booked for ALMA Large Program 2017.1.01355, A. Lopez, E. Chapillon (Grenoble)

S. Browson, 17/12/18 - 21/12/18, W17CD, A. Lopez-Sepulcre (Grenoble, reducV1)

J. Goicoechea, 14/01/19 - 18/01/19, ALMA 2015.1.01082.S, E. Chapillon (Grenoble, reducV2)

#### Visitors in 2018

X. Ge, 19/09/18 - 21/09/18, S18BN, A. Lopez (Grenoble, reducV1) D. Spérone-Longin, 10/09/18 - 14/09/18, ALMA 2017.1.00257.S, K.T. Wong (reducV1)

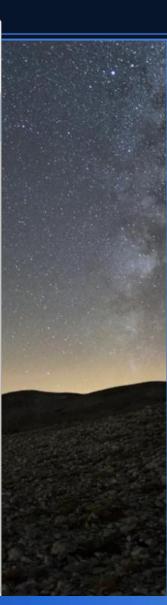




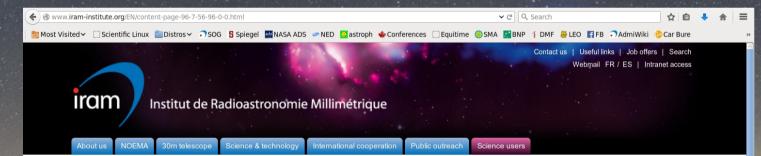
virtual tours







# \* Please, read the documentation before your visit (especially if your a first time visitor):



30m telescope							
NOEMA interferometer							
Observing schedule							
CDS Archive							
Data reduction							
Documentation							
Contact the SOG							
ARC NODE							
Proposals							
Large Program Archive							
Results, Reports and Archives							
News							
Events							

**DATA Reduction:** 

#### Documentation

Find here documents related to the preparation of proposals, documents mostly relevant to the operation of the interferometer (of interest for astronomers with special observing), and other documents. We refer to GILDAS for the main documentation related to the calibration and reduction of data obtained with PdBI and NOEMA. GILDAS, the Grenoble Image and Line Data Analysis Software, is a joint effort of IRAM and the Observatoire de Grenoble.

#### Proposal preparation

An Introduction to the IRAM NOEMA interferometer is a description of the NOEMA interferometer. This is a must for the astronomers preparing observing proposals. It has been updated and includes a description of the NOEMA capabilities, before the arrival of PolyFix. Most recent information on the current status and the observing capabilities of NOEMA can also be found here.

The PolyFix correlator modes and ASTRO commands to set up the new NOEMA correlator are described here. The ASTRO Manual, ASTRO, A Software To pRepare Observations, is a simple astronomical package to plot source visibilities, compute observing frequency setup, find phase calibrators, etc...

#### Data calibration

The CLIC Manual, CLIC, Continuum and Line Interferometer Calibration, is the calibration software for data of the NOEMA array.

Amplitude Calibration, describes the primary amplitude calibration: atmospheric calibration receiver and telescope dependent parameters. This document also applies for the 30-m calibration.

Calibration CookBook, a supplement to the CLIC manual, contains simple receipes to calibrate interferometer data



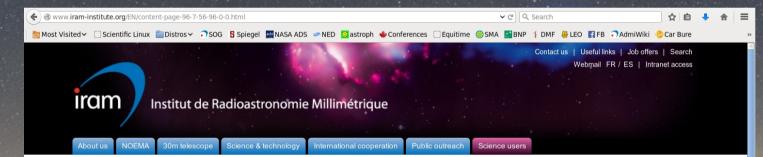


NOEMA and 30m virtual tours

#### Download the brochure



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Results, Reports and Archives							
News							
Events							

**DATA Reduction:** 

#### Documentation

Find here documents related to the preparation of proposals, documents mostly relevant to the operation of the interferometer (of interest for astronomers with special observing), and other documents. We refer to GILDAS for the main documentation related to the calibration and reduction of data obtained with PdBI and NOEMA. GILDAS, the Grenoble Image and Line Data Analysis Software, is a joint effort of IRAM and the Observatoire de Grenoble.

#### Proposal preparation

An Introduction to the IRAM NOEMA interferometer is a description of the NOEMA interferometer. This is a must for the astronomers preparing observing proposals. It has been updated and includes a description of the NOEMA capabilities, before the arrival of PolyFix. Most recent information on the current status and the observing capabilities of NOEMA can also be found here.

The PolyFix correlator modes and ASTRO commands to set up the new NOEMA correlator are described here. The ASTRO Manual, ASTRO, A Software To pRepare Observations, is a simple astronomical package to plot source visibilities, compute observing frequency setup, find phase calibrators, etc...

#### Data calibration

The CLIC Manual, CLIC, Continuum and Line Interferometer Calibration, is the calibration software for data of the NOEMA array.

Amplitude Calibration, describes the primary amplitude calibration: atmospheric calibration receiver and

Calibration CookBook, a supplement to the CLIC manual, contains simple receipes to calibrate interferometer data.



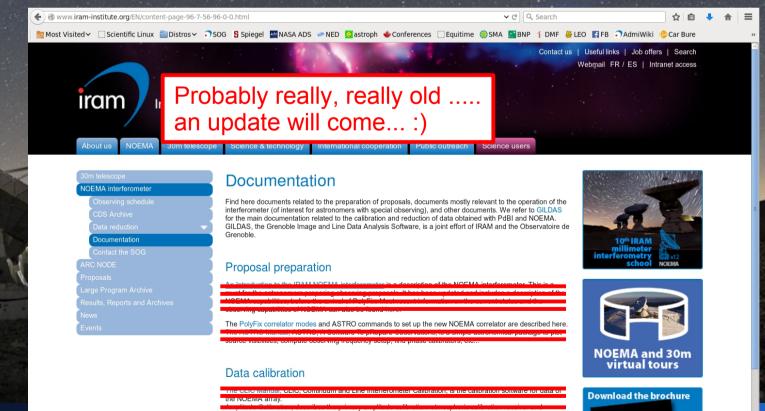


NOEMA and 30m virtual tours

#### **Download the brochure**

# \* Please, read the documentation before your visit (especially if your a first time visitor):

**DATA Reduction:** 



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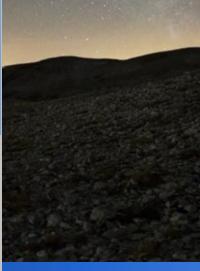
data

## \* Please, read the documentation before your visit (especially if your a first time visitor):











**DATA Reduction:** 

Latest news

School Announcement

The presentations given during the school are now available on-line

NOEMA interferometer. The program will include lectures on

The 9<sup>th</sup> IRAM millimeter interferometry school will be held October 10th-14th 2016 at the IRAM beadquarters (Grenoble, France). It is intended for students, post-docs and scientists who want to acquire a good knowledge of interferometry and data reduction techniques at millimeter wavelengths, with a special emphasis on the





## **DATA Reduction:**

\* LC is there to <u>help</u> you with the data reduction and <u>may</u> provide further assistance for mapping and/or more in-depth analysis

\* please note data reduction accounts are usually kept open for -2 weeks and will be then deleted (raw data will always be archived but no data reduction products!)

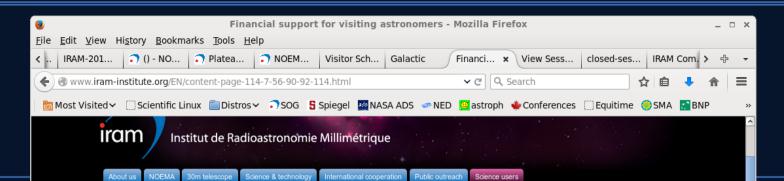
## **DATA Reduction:**

 Travel funds may be available:

 either for Pis from IRAM partner countries (travel will be paid by IRAM)
 through RADIONET TA program funding if Certain criteria are fullfilled; contact: winters@iram.fr

## or read more here:

http://www.iram-institute.org/EN/content-page-114-7-56-90-92-114.html



#### NOEMA interferometer Observing schedule CDS Archive Data reduction Visiting astronomers Visitor Schedule Financial support for visiting astronomers Local contacts Data publication policies Data reduction and analysis software Documentation Contact the SOG ARC NODE Proposals Large Program Archive

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## Financial support to visiting astronomers on mission to IRAM-Grenoble for data reduction

Financial support is granted to the Principal Investigators from institutes in the IRAM member states on a NOEMA data reduction mission to Grenoble. IRAM provides free transportation, board and lodging to these astronomers. Only under exceptional circumstances, financial support can be provided for an additional astronomer, and after prior consent by IRAM.

#### I. Eligible scientists from the IRAM member states

- · France : Astronomers working at French observatories and universities.
- Germany : Astronomers working at Max-Planck Institutes.
- Astronomers working at German universities may also be eligible to travel reimbursement, provided they fill
  a special form.
- · Spain : Astronomers working at the Instituto Geografico Nacional.

#### Rules for Reimbursement

Generally, visiting astronomers are asked to book their travel tickets themselves. The conditions for reimbursement are as follows :

- AIR : The reimbursement of flight tickets is made on the basis of the cheapest price available for a
  roundtrip. The authorization by IRAM must be obtained for any exception to this regulation. Public
  transportation (shuttle) from and to the airport, should be used. Taxis are reimbursed only if a bus or train
  service is not available at the time of fights (please keep all receipts).
- TRAIN : For travel by train, the costs of a 2nd class ticket will be reimbursed. Supplements for high-speed trains and sleeper are eligible expenses.
- · CAR : Mileage expenses by private car are not reimbursed by IRAM.
- ACCOMODATION : The same eligibility rules apply for accomodation reimbursement. Accomodation in a 2 stars hotel will be organized by IRAM.

Reimbursement procedure

On their arrival at IRAM, visiting astronomers will be held a Travel Request Form which is to be filled in, signed and sent to IRAM (Attention : "Service des Missions"), together with trip tickets and all necessary receipts.

#### II. Scientists eligible for TA (RadioNet) support

RadioNet IV is an initiative supported by the European Commission under the 8th Framework Programme (FP8) from 01-01-2017 to 31-12-2020.

TA support may be available for eligible projects. Please submit your request to the IRAM RadioNet TA leader (ta@iram.fr).

#### III. Not supported astronomers

When free board, lodging and travel are not provided by IRAM, the charges are as follows

Taxi Geneva-Grenoble<sup>1</sup> 160 km, roughly 180 euros Taxi Lyon-Grenoble 100 km, roughly 180 euros Train Return ticket Geneva – Grenoble 100 km, 40 euros Bus shuftle Return ticket Lyon SI-Exupery – Grenoble 30 euros Meals in the proximity of IRAM about 12 euros





NOEMA and 30m virtual tours

#### Download the brochure



What does IRAM do ? What is radioastronomy? How do radiotelescopes work? Download the brochure and find out.









#### 10" IRAIVI Interferometry School – 01-05 October 2018

