

Bibliography

- [Alloin et al 2000] Alloin, D., Barvainis, R., Guilloteau, S., 2000, *Ap J* **528**, L81
New CO and Millimeter Continuum Observations of the $Z = 2.394$ Radio Galaxy 53W002
- [Altenhoff et al. 1994] Altenhoff, W., Thum, C., Wendker, H.J., 1994, *A&A* **281**, 161-183
Radio emission from stars: a survey at 250 GHz.
- [Baudry et al. 1994] Baudry A., Lucas R., Guilloteau S., 1995, *A&A* **293**, 594
Accurate position of SiO masers.
- [Baudry 1996] in *Science with Large Millimetre Arrays*, ed. P.A.Shaver, p. 353
ESO Astrophysics Symposia, Springer
- [Baudry et al. 1998] Baudry A., Herpin F., Lucas R. 1998, *A&A* **335**, 654
 ^{29}SiO ($v=0$) and ^{28}SiO ($v=1$) $J=2-1$ maser emission from Orion IRC2
- [Beasley et al. 1995] Beasley et al. 1995, in *First mm-VLBI Workshop*, Boston, 53
- [Berger et al. 2001] Berger J.-P., Haguenauer P., Kern P., Rousselet-Perraut K., Malbet F., Schanen-Duport I., Séveri M., Millan-Gabet R., Traub W. 2001, in preparation
- [Born & Wolf 1975] Born, M., and Wolf, E., 1975 *Pergamon Press*
Principles of Optics, New Physical Optics Notebook
- [Bracewell 1978] Bracewell R.N. 1978, *Nature* 274, 780
- [Bremer 1994] Bremer, M. 1994, IRAM internal report
The Phase Project: First Results
- [Bremer 1995] Bremer, M., 1995, IRAM report **238**
The Phase Project: Observations on Quasars
- [Bremer et al. 1995] Bremer, M., Guilloteau, S., Lucas, R. 1995, IRAM Newsletter **24** (Nov. 1995)
Atmospheric Phase Correction: from random phase down to 20 degree r.m.s. at 230 GHz.
- [Browne et al. 1998] Browne, I.W.A., et al. 1998 *MNRAS* **293**, 257
Interferometer phase calibration sources – II
- [Cernicharo 1988] Cernicharo, J., 1998, PhD Thesis Paris, and IRAM report 52
ATM: A Program to compute Theoretical Atmospheric Opacity for Frequencies below 1 THz
- [Cernicharo & Pardo 1999] Private communication.
- [Christiansen and Hogbom 1969] Christiansen, W.N., and Hogbom, J.A., 1969, *Cambridge University Press*
Radiotelescopes

- [Clark 1980] Clark, B.G., 1980, *A&A*, **89**, 377
An efficient implementation of the algorithm "CLEAN"
- [Cooper 1970] Cooper, B.F.C., 1970, *Aust. J. Phys.* **23**, 521
- [Cornwell 1987] Cornwell, T.J., 1987, MMA Memo. 42
- [Cornwell 1988] Cornwell, T.J., 1988, *A&A*, **202**, 316
Radio interferometric imaging of very large objects.
- [Cornwell 1989] Cornwell, T.J., 1989
in *Synthesis Imaging in Radio Astronomy*,
Perley R.A., Schwab F.R., Bridle A.H. (eds),
ASP Conferences Series Volume 6, p. 277
- [Cornwell 1993] Cornwell, T.J., 1993
in *Astronomy with Millimeter and Sub-millimeter Wave Interferometry*,
Ishiguro M., Welch W.J. (eds),
ASP Conference Series Volume 59, p. 96
- [Cotton & Schwab 1984] Schwab, F.R., 1984, *Astron. J.* **89**, 1076
Relaxing the isoplanetism assumption in self-calibration: applications to low
frequency radio interferometry. (see top of p.1078)
- [Coudé Du Foresto, Mazé, & Ridgway 1993] Coudé du Foresto V., Mazé G., Ridgway S. 1993, ASP Conf.
Ser. 37: Fiber Optics in Astronomy II, 285
- [Coudé Du Foresto, Ridgway, & Mariotti 1997] Coudé Du Foresto V., Ridgway S., & Mariotti J.-M. 1997,
A&AS, **121**, 379
- [D'Addario 1989] D'Addario, L., 1989, in
Synthesis Imaging in Radio Astronomy,
Perley R.A., Schwab F.R., Bridle A.H. (eds),
ASP Conferences Series Volume 6, p. 59
- [Danchi et al. 1988] Danchi W.C., Bester M., Townes C.H. 1988, in ESO Conf. Workshop Proc.,
29, 867
- [Downes & Altenhoff 1989] Downes, D., Altenhoff, W.J., 1989
Anomalous refraction at radio wavelengths
URSI/IAU Colloquium on Radio Astronomical Seeing, Beijing (China)
J.E.Baldwin, Wang Shouguan, eds., International Academic Publisher &
Pergamon Press, p. 31
- [Downes et al 1999] Downes, D., Neri, R., Greve, A. et al, 1999 *A&A* **347**, 809
Proposed identification of Hubble Deep Field submillimeter source HDF 850.1
- [Ekers & Rots 1979] Ekers, R.D., Rots, A.H., 1979, in
Images formation from coherence function in astronomy, C. van Schooneveld
(ed.),
Proc. IAU Symp. 49, p. 61
- [Evans & Stephens 1995] Evans, K. F., and Stephens, G.L., 1995 *Journal of the Atmospheric Sciences*,
52, 2058-2072.
- [Felli & Spencer 1989] Felli, M., and spencer R.E., 1989 *NATO ASI Series*, **283**
Very Long Baseline Interferometry

- [Feynman et al. 1964] Feynman R.P., Leighton R.B. and Sands M. 1964, *Addison-Wesley Publishing Company*
The Feynman Lectures on Physics
- [Fizeau 1868] Fizeau H. 1868, *C. R. Acad. Sci.* **66**, 932
- [Froehly 1981] Froehly C. 1981, Coherence and Interferometry through Optical Fibers. In: Ulrich M.-H., Kjær K. (eds) *Proc. ESO Conf., Science Importance of High Angular Resolution at Infrared and Optical Wavelengths*. ESO, Garching, p. 285.
- [Gay & Journet 1973] Gay J., Journet A. 1973, *Nature Phys. Sci.* **241**, 32
- [Goldsmith 1988] Goldsmith P.F., 1988, *IEEE press*
Instrumentation and Technique for Radio Astronomy
- [Goodman 1985] Goodman J.W. 1985, *Statistical Optics* (New York: John Wiley & Sons)
- [Greve & Hooghoudt 1981] Greve A., Hooghoudt, B. 1981, *A&A* **93**, 76
Quality evaluation of radio reflector surface.
- [Greve et al. 1995] Greve et al., 1995, *A&A* **299**, L 33
- [Greve et al. 1998] Greve A., Kramer, C., & Wild, W., 1998, *A&A Supp* **133**, 271
The beam pattern of the IRAM 30-m telescope (a reflector with several surface error distributions).
- [Gueth 1997] Gueth, F., 1997, PhD thesis, University of Grenoble
- [Gundlach 1989] Gundlach, K.H., 1989 (NATO ASI series, F 59, p. 259)
- [Guilloteau 1990] Guilloteau, S., 1990, IRAM Documentation
Amplitude Calibration
- [Guilloteau et al. 1993] Guilloteau, S., Dutrey, A., Marten, A., & Gautier, D., 1993, *A&A* **279**, 661
CO in the troposphere of Neptune: Detection of the J=1-0 line in absorption
- [Guilloteau et al. 1999] Guilloteau, S., Dutrey, A., Simon, M., 1999, *A&A* **348**, 570.
GG Tauri: the ring world.
- [Hanbury Brown & Twiss 1956] Hanbury Brown R., Twiss R.Q. 1956, *Nature* **177**, 27
- [Hogbom 1974] Högbom, J.A., 1974, *A&A Supp.*, **15**, 417.
Aperture synthesis with a non regular distribution of interferometer baselines.
- [Hagen et al. 1973] Hagen, J.B., Farley, D.T., 1973, *Radio Science* **8**, 775
- [Hill & Cliffort 1981] Hill, R.J., and Cliffort, S.F., 1981, *Radio Science* **16** No. 1, 77
- [Johnson et al. 1974] Johnson M.A., Betz A.L., Townes C.H. 1974, *Phys. Rev. Lett.* **33**, 1617
- [Karpov 1999] Karpov A., 1999, *C.R.Acad.Sci.Paris*, t.327, IIb, p.539
- [Kellerman & Thompson 1985] Kellerman & Thompson 1985, *Science* **228**, 123
- [Kemball et al. 1995] Kemball et al. 1995, *AAS* **110**, 383
- [Kolmogorov 1941] Kolmogorov, A.N. (1941), in
Dissipation of energy in a locally isotropic turbulence, *Doklady Akad. Nauk SSSR*, **32**, 141
(English translation in: *American Mathematical Society Translations* 1958, Series 2, Vol 8, p. 87, Providence R.I)

- [Kraus 1982] Kraus, J.D., 1982 *McGraw Hill*
Radio Astronomy
- [Krichbaum et al. 1994] Krichbaum et al. 1994, *Proc. 2nd EVN/JIVE Symp.*, Torun, 47
- [Krichbaum et al. 1998] Krichbaum et al. 1998, *A&A* **335**, L 106
- [Labeyrie 1975] Labeyrie A. 1975, *ApJ* 196, L71
- [Labeyrie 1978] Labeyrie, A. 1978, *ARA&A*, 16, 77
- [Landau & Lifshitz 1959] Landau L.D. & Lifshitz E.M. 1959 *Pergamon Press*, p.49 // Fluid Mechanics
- [Lannes et al. 1994] Lannes, A., Anterrieu, E., and Bouyoucef, K., *J. mod. Optics*, 1994, **41**, 1537-1574.
"Fourier Interpolation and Reconstruction via Shannon-type Techniques.
Part I: Regularization principle."
- [Lannes et al. 1996] Lannes, A., Anterrieu, E., and Bouyoucef, K., *J. mod. Optics*, 1996, **43**, 105-138.
"Fourier Interpolation and Reconstruction via Shannon-type Techniques.
Part II: Technical developments and applications"
- [Lannes et al. 1997] Lannes, A., Anterrieu, E., and Maréchal, P., *A&A Supp.*, 1997, **123**, 183-198.
CLEAN and WIPE
- [Lay 1997] Lay, O., 1997, *A&A Supp* **122**, 547
Phase calibration and water vapor radiometry for millimeter wave arrays.
- [Lo and Lee] Lo, S.W., & Lee
Antenna Handbook theory, applications and design
- [Love 1978] Love, A.W., 1978, *IEEE press*
Reflector Antennas
- [Lucas 1995] Lucas, R. 1995, IRAM internal report
Practical Implementation of phase correction.
- [Malbet et al. 1999] Malbet F., Kern P., Schanen-Duport I., Berger J.-P., Rousselet-Perraut K., Benech P. 1999, *A&AS* 138, 135
- [Mariotti et al. 1992] Mariotti J.-M. et al. 1992, Coherent Combined Instrumentation for the VLT Interferometer. VLT Report No. 65. ESO, Garching.
- [Martin-Pintado et al. 1988] Martin-Pintado, J., et al 1988 *A&A* **197**, L15-L18.
Radiocontinuum and recombination lines towards CRL618 - Evidence for an ionized stellar wind ?
- [Mauersberger et al. 1989] Mauersberger, R. et al 1989, *A&A Suppl* **79**, 217
Line calibrators at λ 1.3, 2 and 3 mm
- [Matsushita et al. 1999] Matsushita S, Matsuo H, Pardo J.R., Radford S., 1999 *Publ. Astron. Soc. Japan*, **51**, 603-610.
- [Michelson & Pease 1921] Michelson A.A., Pease F.G. 1921, *ApJ* 53, 249
- [Minnet & Thomas 1968] Minnet & Thomas 1968, *Proc. IEE* **115**, 1419.
- [Mishchenko 2000] Mishchenko, M.I., 2000, *Applied Optics*, **39**, 1026-1031.

- [Padin et al. 1990] Padin et al. 1990, *ApJ* **360**, L 11
- [Paine et al. 2000] Paine S, Blundell R, Papa D.C., Barrett J.W., Radford S.J.E., 2000 *PASP*, **767**, 108-118.
- [Pardo et al. 2001a] Pardo, J.R., E. Serabyn, and J. Cernicharo, 2001, *J. Quant. Spectrosc. Radiat. Transfer*, **68**, 419-433.
- [Pardo et al. 2001] Pardo, J.R., Cernicharo J., and Serabyn E., 2001, *IEEE trans. Antennas and Propagation*, accepted (10 Feb., 2001).
- [Patnaik et al 1992] Patnaik, A., et al 1992 *MNRAS* **254**, 655
Interferometer phase calibration sources – I
- [Pedretti et al. 2000] Pedretti E., Labeyrie A., Arnold L., Thureau N., Lardiere O., Boccaletti A., Riaud P. 2000, **147**, 285
- [Penzias & Burrus 1973] Penzias A.A., & Burrus C.A., 1973, *ARA&A* **11**, 51
- [Perrin et al. 2000] Perrin G., Lai O. Léna P.J. 2000, SPIE 4006, 708
- [Queney 1974] Elements de Météorologie, P. Queney, 1974,
Collection de l'Ecole Nationale de Techniques Avancées, Masson & Cie Pub. Paris
- [Reid et al. 1988] Reid, M. et al. 1988, *ApJ* **330**, 809
The distance to the center of the Galaxy – H₂O maser proper motions in Sagittarius B2(N)
- [Reynolds et al. 1989] Reynolds, G.O., DeVelis, J.B., Parrent, G.B.Jr., & Thompson, B.J., 1989, *SPIE Optical Engineering Press*
Physical optics notebook: Tutorial in Fourier optics.
- [Rogers et al. 1984] Rogers et al. 1984, *Radio Science* **19**, 1552
- [Roddier 1981] Roddier F. 1981, Progress in optics. Volume 19. Amsterdam, North-Holland Publishing Co., 1981, p. 281-376., **19**, 281
- [Ruze 1966] Ruze 1966, *Proc. IEEE* **54**, 633
- [Sault et al 1996] Sault R.J., Staveley-Smith L., Brouw W.N., 1996, *A&A Supp.*, **120**, 375
An approach to interferometric mosaicing
- [Schwarz 1978] Schwarz U.J., 1978, *A&A*, **65**, 345
Mathematical-statistical description of the iterative beam removing technique (method CLEAN).
- [Scoville et al 1997] Scoville, N.Z., Yun, M.S., Windhorst, R.A., Keel, W.C., Armus, L., 1997. *Ap J* **485** L21
CO J=3-2 Emission in the Radio Galaxy 53W002 at $z = 2.394$
- [Serabyn & Weisstein 1996] Serabyn E, Weisstein EW., 1996 *Applied Optics*, **35**, 2752-2763.
- [Shannon 1949] Shannon, C.E., 1949, *Proc. IRE*, **37**, 10-21
- [Shao & Colavita 1992] Shao M., Colavita M.M. 1992, *A&A* **262**, 353
- [Sovers et al. 1998] Sovers O.J., Fanselow J.L., Jacobs C.S., in *Reviews of Modern Physics*, Vol. **70**, No. 4, October 1998, p.1393.
- [Steer et al. 1984] Steer D.G., Dewdney P.E., Ito M.R., 1984, *A&A*, **137**, 159
Enhancement to the deconvolution algorithm “CLEAN”.

- [Stéphan.1873] Stéphan E. 1874, C. R. Acad. Sci. 78, 1008
- [Tatarski 1961] Tatarski V.I. 1961
Wave Propagation in a turbulent Medium, McGraw-Hill
- [Tatarski 1971] Tatarski V.I. 1971
The Effects of the turbulent Atmosphere on Wave Propagation
(translated from Russian by the Israel Program for Scientific Translations
Ltd, ISBN 0 7065 0680 4)
reproduced by National Technical Information Service, U.S. Department of
Commerce, Springfield, Va. 22151
- [Thayer 1974] Thayer G.D. 1974, *Radio Science* **9** No 10, p. 803
- [Thompson et al. 1986] Thompson, A.R., Moran, J.M., Swenson, G.W., 1986
Interferometry and Synthesis in Radio Astronomy (Wiley : New York)
- [Townes & Schawlow 1975] C.H. Townes, A.L. Schawlow, 1975
Microwave Spectroscopy, Dover Pub. New York
- [Van Vleck 1966] Van Vleck, J.H., Middleton, D., 1966, *Proc. IEEE* **54**, 2
- [Waters 1976] Absorption and Emission by atmospheric gases, J.W. Waters 1976,
in *Methods of experimental physics*, **12**, ed. M.L. Meeks p. 147 Academic
Press, New York
- [Wakker & Schwartz 1988] Wakker B., Schwarz U.J., 1988, *A&A*, **200**, 312
The multi-resolution CLEAN and its application to the short-spacing prob-
lem in interferometry.
- [Weigelt et al. 2000] Weigelt G. et al. 2000, SPIE 4006, 617
- [Wilkinson et al. 1998] Wilkinson, P.N., et al. 1998 *MNRAS* **300**, 790
Interferometer phase calibration sources – III
- [Zensus et al. 1995] Zensus A.J., Diamond P.J, Napier P.J, 1995, *ASP Conf. Series* **82**
Very Long Baseline Interferometry and the VLBA