

# **ING LA PALMA TECHNICAL NOTE NO. 121**

**ING bibliography and publication rate (1998)**

Janet Sinclair (RGO)

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# Publications: Bibliography and Analysis

## Bibliography

Below is the list of research papers published in 1998 that resulted from observations made at the Isaac Newton Group of Telescopes. Only papers appearing in refereed journals have been included, although many useful data have also appeared elsewhere, notably in workshop and conference proceedings.

The list totals 228 publications. 118 publications contain results from the WHT, 72 contain results from the INT and 38 contain results from the JKT. Note that papers containing results from more than one telescope have been credited to each telescope used.

### WHT

#### Published Papers, using WHT data, in Refereed Journals, 1998.

1. I.Aretxaga, R.J.Terlevich & B.J.Boyle, Multi-colour imaging of  $z = 2$  QSO hosts. *MNRAS*, **296**, 643.
2. S.Arribas, E.Mediavilla & J.J.Fuensalida, A new technique for performing two-dimensional spectroscopy of objects of large dynamic range: the binary system HD 167605 A+B. *Astrophys J.* **505**, L43.
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4. N.Bade, V.Beckmann, N.G.Douglas, P.D.Barthel, D.Engels, L.Cordis, P.Nass & W.Voges, On the evolutionary behaviour of BL Lac objects. *Astron Astrophys.* **334**, 459.
5. E.J.Bakker & D.L.Lambert, The circumstellar shell of the post-asymptotic giant branch star HD 56126: the  $^{12}\text{CN}/^{13}\text{CN}$  isotope ratio and fractionation. *Astrophys J.* **502**, 417.
6. E.J.Bakker, D.L.Lambert, H.van Winckel, J.K.McCarthy, C.Waelkens & G.Gonzalez, Spectral variability of the binary HR 4049. *Astron Astrophys.* **336**, 263.
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8. J.R.Barnes, A. Collier Cameron, Y.C.Unruh, J.-F.Donati & G.A.J.Hussain, Latitude distributions and lifetimes of star-spots on G dwarfs in the  $\alpha$  Persei cluster. *MNRAS*, **299**, 904.
9. C.R.Benn, M.Vigotti, R.Carballo, J.I.Gonzalez-Serrano & S.F.Sánchez, Red quasars not so dusty. *MNRAS*, **295**, 451.
10. W.J.G. de Blok & J.M. van der Hulst, Star formation and the interstellar medium in low surface brightness galaxies. I. Oxygen abundances and abundance gradients in low surface brightness disk galaxies. *Astron Astrophys.* **335**, 421.
11. F.C. van den Bosch, W.Jaffe & R.P. van der Marel, Nuclear stellar discs in early-type galaxies - I. *HST* and WHT observations. *MNRAS*, **293**, 343.
12. D.V.Bowen, M.Pettini & B.J.Boyle, Ly $\alpha$  absorption in the nearby Universe: the sightline to Q1821+643. *MNRAS*, **297**, 239.
13. A.A.Breeveld & E.M.Puchnarewicz, A search for optical polarization from the narrow-line Seyfert 1 galaxy RE J1034+396. *MNRAS*, **295**, 568.
14. C.Briceño, L.Hartmann, J.Stauffer & E.Martín, A search for very low mass pre-main-sequence stars in Taurus. *Astron. J.* **115**, 2074.

15. D.Burns *et al.* Large-amplitude periodic variations in the angular diameter of R Leonis. *MNRAS*, **297**, 462.
16. R.F.Butler, A.Shearer, R.M.Redfern, M.Colhoun, P.O'Kane, A.J.Penny, P.W.Morris, W.K.Griffiths & M.Cullum, TRIFFID photometry of globular cluster cores - I. Photometric techniques and variable stars in M15. *MNRAS*, **296**, 379.
17. R.Carballo, S.F.Sánchez, J.I.González-Serrano, C.R.Benn & M.Vigotti, K-band imaging of 52 B3-VLA quasars: nucleus and host properties. *Astron. J.* **115**, 1234.
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20. A.J.Castro-Tirado *et al.* Photometry and Spectroscopy of the GRB 970508 Optical Counterpart. *Science* **279**, 1011.
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22. N.E.Clark, D.J.Axon, C.N.Tadhunter, A.Robinson & P.O'Brien, Jet-induced shocks in 3C 171: An intermediate-redshift analog of high-redshift radio galaxies. *Astrophys J.* **494**, 546.
23. J.S.Clark *et al.* Long-term variability of the Be/X-ray binary A 0535 +26-I. Optical and UV spectroscopy. *MNRAS*, **294**, 165. (INT,JKT)
24. E.A.Corbett, A.Robinson, D.J.Axon, S.Young & J.H.Hough, The profiles of polarized broad H $\alpha$  lines in radio galaxies. *MNRAS*, **296**, 721.
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29. M.T.Eibe, Prominence and plage activity in the recently discovered late-type rapid rotator, RE 1816+541. *Astron Astrophys.* **337**, 757.
30. C.D.Fassnacht & J.G.Cohen, Keck spectroscopy of three gravitational lens systems discovered in the JVAs and class surveys. *Astron. J.* **115**, 377.
31. R.P.Fender & G.G.Pooley, Infrared synchrotron oscillations in GRS 1915+105. *MNRAS*, **300**, 573.
32. I.Ferreras, N.Benítez & E. Martínez-González, Imaging around PC1643+4631A at the Lyman limit. *Astron Astrophys.* **333**, 43.
33. D.Fisher, D.Fabricant, M.Franx & P. van Dokkum, A spectroscopic survey of the galaxy cluster CL 1358+62 at  $z = 0.328$ . *Astrophys J.* **498**, 195.

34. T.J.Galama *et al.* Optical follow-up of GRB 970508. *Astrophys J.* **497**, L13.
35. M.R.García, P.J.Callanan, D.Moraru, J.E.McClintock, E.Tollestrup, S.P.Willner, C.Hergenrother, C.R.Robinson, C.Kouveliotou & J. van Paradijs, Power-law decays in the optical counterparts of GRB 970228 and GRB 970508. *Astrophys J.* **500**, L105.
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37. R.Genzel *et al.* What powers ultraluminous *IRAS* galaxies? *Astrophys J.* **498**, 579.
38. K.Glazebrook, R.Abraham, B.Santiago, R.Ellis & R.Griffiths, The physical parameters of the evolving population of faint galaxies. *MNRAS*, **297**, 885.
39. G.Gómez & R.López, The Canarias type Ia supernova archive. II. A standard spectral evolution sequence. *Astron. J.* **115**, 1096.
40. P.J.Groot *et al.* A search for optical afterglow from GRB 970828. *Astrophys J.* **493**, L27.
41. M.A.Guerrero & A.Manchado, A precessing collimated outflow in the quadrupolar planetary nebula NGC 6881. *Astrophys J.* **508**, 262.
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43. T.J.Harries, D.J.Hillier & I.D.Howarth, A spectropolarimetric survey of northern hemisphere Wolf-Rayet stars. *MNRAS*, **296**, 1072.
44. R.E.Hibbins, P.L.Dufton, S.J.Smartt & W.R.J.Rolleston, The carbon abundance in main-sequence B-type stars towards the Galactic anti-centre. *Astron Astrophys.* **332**, 681. (INT)
45. R.W.Hilditch, S.A.Bell, G.Hill & T.J.Harries, Light-curve analysis and eclipse mapping of the contact binaries KQ Gem and V412 Her. *MNRAS*, **296**, 100. (JKT)
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50. F.P.Israel, P.P. van der Werf, T.G.Hawarden & C.Aspin, The obscured circumnuclear region of the outflow galaxy NGC 3079. *Astron Astrophys.* **336**, 433.
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52. P.Jablonka, E.Bica, C.Bonatto, T.J.Bridges, M.Langlois & D.Carter, Metallicity distribution of bulge globular clusters in M31. *Astron Astrophys.* **335**, 867.
53. N.Jackson *et al.* B0712+472: a new radio four-image gravitational lens. *MNRAS*, **296**, 483.
54. S.N.Kemp & B.Bates, High-resolution spectroscopy of the Seyfert galaxy Mrk 595 in the direction of the Cohen H $\alpha$  high-velocity stream. *MNRAS*, **301**, 1095.

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56. J.H.Knapen, Statistical properties of H<sub>II</sub> regions in the disc of M100. *MNRAS*, **297**, 255.
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58. M.Lacy, S.Rawlings, K.M.Blundell & S.E.Ridgeway, A radio-jet–galaxy interaction in 3C 441. *MNRAS*, **298**, 966.
59. G.F.Lewis, M.J.Irwin, P.C.Hewett & C.B.Foltz, Microlensing-induced spectral variability in Q 2237 + 0305. *MNRAS*, **295**, 573.
60. A.Lobel, G.Israelian, C.de Jager, M.Musaev, J.Wm.Parker & A.Mavrogiorgou, The spectral variability of the cool hypergiant  $\rho$  Cassiopeiae. *Astron Astrophys*. **330**, 659.
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65. E.L.Martín, G.Basri, M.R.Zapatero-Osorio, R.Rebolo & R.J.García López, The first L-type brown dwarf in the Pleiades. *Astrophys J.* **507**, L41. (INT)
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72. P.Molaro, M.Centurión & G.Vladilo, Chemical abundances in the young galaxy at  $z = 2.309$  towards PHL 957. *MNRAS*, **293**, L37.
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79. F.Prada, C.M.Gutierrez & C.D.McKeith, The stellar and gaseous kinematics in NGC 253. *Astrophys J.* **495**, 765.
80. H.Rauer, C.Arpinay, J.Manfroid, G.Cremonese & C.Lemme, The spatial sodium distribution in the coma of comet Hale-Bopp (C/1995 O1). *Astron Astrophys.* **334**, L61.
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95. R.M.Sharples, S.E.Zepf, T.J.Bridges, D.A.Hanes, D.Carter, K.M.Ashman & D.Geisler, Spectroscopy of globular clusters in NGC 4472. *Astron. J.* **115**, 2337.
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## INT

### Published Papers, using INT data, in Refereed Journals, 1998.

1. P.B.Alton, M.Trewhella, J.I.Davies, R.Evans, S.Bianchi, W.Gear, H.Thronson, E.Valentijn & A.Witt, Resolved 200 $\mu$ m images of nearby galaxies – evidence for an extended distribution of cold dust. *Astron Astrophys.* **335**, 807.
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6. M.Corcoran & T.P.Ray, Spectroscopic discovery of a bipolar jet from the Herbig Ae/Be star LkH $\alpha$  233. *Astron Astrophys.* **336**, 535.
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## JKT

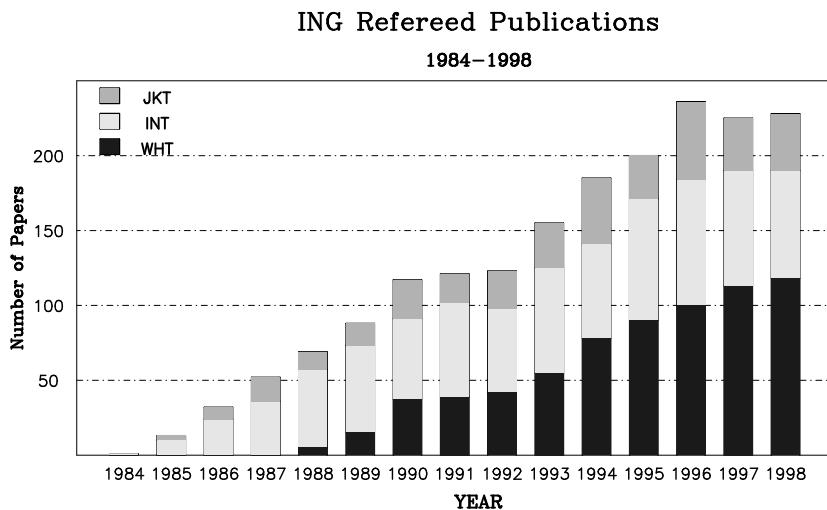
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## Analysis

The list contains 228 publications, some of which include results from more than one telescope. 118 papers contain results from the WHT, 72 contain results from the INT and 38 contain results from the JKT. The corresponding figures for 1996 were 113 from the WHT, 77 from the INT and 35 from the JKT. The number of papers published from the WHT continues to increase and at 117, is the highest number to date.



The charts below show the authorship of all papers from 1984–1997 and for 1998 only, according to national group. The nationality of each author is attributed according to his or her address and equal weight is given to each author.

It can be seen that the contribution from the rest of the world (others) has increased significantly as compared to the UK (only) contribution, which encourages us to believe that collaborative programmes are on the increase.

