

ING La Palma Technical Note no. 101

ING bibliography and analysis for papers published in 1995

W L Martin (RGO)

J E Sinclair (RGO)

March 1996

Publications: Bibliography and Analysis

Below is the list of research papers published in 1995 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 200 publications. 90 publications contain results from the WHT, 81 contain results from the INT and 29 contain results from the JKT.

WHT

- A J Adamson and D C B Whittet (1995), "RA search for polarization in diffuse interstellar bands towards HD 197770", *Astrophys J* 448, L49
- Itziar Aretxaga, B J Boyle and Roberto Terlevich (1995), "Extensions around $z=2$ QSOs", *MNRAS* 275, L27
- M Balcells, R Morganti, T Oosterloo, I Pérez-Fournon and J I González-Serrano (1995), "Kinematic profiles of dumbbell galaxies with twisted radio jets", *Astron Astrophys* 302, 665
- X Barcons, K M Lanzetta & J K Webb (1995), "Extensive dark-matter haloes in low-luminosity galaxies revealed by quasar absorption lines", *Nature* 376, 321
- B Bates, C R Shaw, S N Kemp, F P Keenan and R D Davies (1995), "Optical and HI observations of the low-velocity and intermediate-velocity gas towards the globular cluster M13", *Astrophys J* 444, 672
- Frank C van den Bosch and Roeland P van der Marel (1995), "Dynamics of the nuclear gas and dust disc in the E4 radio galaxy NGC 7052", *MNRAS* 274, 884
- David V Bowen, J Chris Blades and Max Pettini (1995), "Interstellar Mg II absorption lines from low-redshift galaxies", *Astrophys J* 448, 634
- B J Boyle, R G McMahon, B J Wilkes and M Elvis (1995), "The Cambridge- Cambridge ROSAT Serendipity Survey - I: X-ray-luminous galaxies", *MNRAS* 272, 462
- B J Boyle, R G McMahon, B J Wilkes and M Elvis (1995), "The Cambridge- Cambridge ROSAT Serendipity Survey - II: Classification of X-ray-luminous galaxies", *MNRAS* 276, 315
- Tom Broadhurst and Joseph Lehar (1995) "A gravitational lens solution for the IRAS galaxy FSC 10214+4724", *Astrophys J* 450, L41
- Paul J Callanan, Jan van Paradijs and Roeland Rengelink (1995), "The orbital light curve of PSR 1957+20", *Astrophys J* 439, 928
- N Cardiel, J Gorgas and A Aragón-Salamanca (1995), "Spectral indices in cooling flow galaxies: evidence or star formation", *MNRAS* 277, 502
- J Casares, P A Charles and T R Marsh (1995), "Dynamical evidence for a black hole in the X-ray transient QZ Vul (=GS 2000+25)", *MNRAS* 277, L45
- J Casares, T R Marsh, P A Charles, A C Martin, E L Martin, E T Harlaftis, E P Pavlenko and R M Wagner (1995), "Doppler tomography of the X-ray transient J0422+32 during the 1993 December mini-outburst", *MNRAS* 274, 565

- J Casares, A C Martin, P A Charles, E L Martin, R Rebolo, E T Harlaftis and A J Castro-Tirado (1995), "On the mass of the compact object in GRO J0422+32", *MNRAS* 276, L35
- Francisco J Castander et al (1995), "Deficit of distant X-ray-emitting galaxy clusters and implications for cluster evolution", *Nature* 377, 39
- M S Catalán, M J Sarna, C M Jomaron and Robert Connon Smith (1995), "Spectroscopy of the white-red dwarf binary RE J1629+780", *MNRAS* 275, 153
- P E Christopoulou, C D Goudis, J Meaburn, J E Dyson and C A Clayton (1995), "The kinematics of an ionized shell, NGC 7635, in the S162 complex", *Astron Astrophys* 295, 509
- P Ciliegi, M Elvis, B J Wilkes, B J Boyle, R G McMahon and T Maccacaro (1995), "The Cambridge-Cambridge ROSAT Serendipity Survey - III: VLA observations and the evolution of radio-quiet and radio-loud objects", *MNRAS* 277, 1463
- C A Clayton and J Meaburn (1995), "Velocity imagery of localized ionized flows in the Rosette nebula", *Astron Astrophys* 302, 202
- D Corcoran and T P Ray (1995), "Herbig-Haro outflows in the V380 Orionis region", *Astron Astrophys* 301, 729
- D Corcoran, T P Ray and P Bastien (1995), "Optical outflows in the vicinity of LkHa198", *Astron Astrophys* 293, 550
- C S Crawford, A C Edge, A C Fabian, S W Allen, H B5hringer, H Ebeling, R G McMahon and W Voges (1995), "Optical spectroscopy of the ROSATX-ray brightest clusters - II", *MNRAS* 274, 75
- P A Crowther, L J Smith and A J Willis (1995), "Fundamental parameters of Wolf-Rayet stars - V: The nature of the WN/C star WR8", *Astron Astrophys* 304, 269
- V S Dhillon and R G M Rutten (1995), "Spectropolarimetry of the dwarf nova IP Peg", *MNRAS* 274, 27
- V S Dhillon and R G M Rutten (1995), "Spectropolarimetry of the nova-like variable V1315 Aquila", *MNRAS* 277, 777
- R Dickson, C Tadhunter, M Shaw, N Clark and R Morganti (1995), "The nebular contribution to the extended UV continua of powerful radio galaxies", *MNRAS* 273, L29
- H Ebeling, C Mendes de Oliveira and D A White (1995), "A2572 and HCG94- galaxy clusters but not as we know them: an X-ray case study of optical misclassifications", *MNRAS* 277, 1006
- U Erkens et al (1995), "Monitoring of active galactic nuclei - VI: The quasar Mkn 876", *Astron Astrophys* 296, 90
- A Fernández-Soto, X Barcons, R Carballo and J K Webb (1995), "The proximity effect on the Lyman α forest due to a foreground QSO", *MNRAS* 277, 235
- Rose A Finn, Robert A Fesen, Gerry W Darling, John R Thorstensen and Guy S Worthey (1995), "Optical spectra of SN 1993J during the first 500 days", *Astron J* 110, 300
- R J García López, R Rebolo and M R Pérez de Taoro (1995), "Beryllium abundances in late-type Hyades dwarf stars", *Astron Astrophys* 302, 184
- R J García López, G Severino and M T Gomez (1995), "Galactic evolution of beryllium - I: NLTE effects and accuracy of beryllium abundances in metal-poor stars", *Astron Astrophys* 297, 787

- R Genzel, L Weitzel, L E Tacconi-Garman, M Blietz, M Cameron, A Krabbe, D Lutz and A Sternberg (1995), "Infrared imaging and Spectroscopy of NGC 7469", *Astrophys J* 444, 129
- Karl Glazebrook, Richard Ellis, Matthew Colless, Tom Broadhurst, Jeremy Allington-Smith and Nial Tanvir (1995), "A faint galaxy redshift survey to B=24", *MNRAS* 273, 157
- Karl Glazebrook, J A Peacock, L Miller and C A Collins (1995), "An imaging K-band survey - II: The redshift survey and galaxy evolution in the infrared", *MNRAS* 275, 169
- G Gómez and R López (1995), "SN 1991F in NGC 3458: A peculiar type Ia supernova", *Astron J* 109, 1737
- Rosa M González-Delgado, Enrique Pérez, Angeles I Diaz, Maria Luisa Garcia-Vargas, Elena Terlevich and José M Vilchez (1995), "The starburst galaxy NGC 7714", *Astrophys J* 439, 604
- N C Hambly, A Fitzsimmons, F P Keenan, P L Dufton, P J F Brown, M J Irwin and W R J Rolleston (1995), "A photometric and spectroscopic survey for young stars in the halo of M31", *Astrophys J* 448, 628
- N C Hambly, I A Steele, M R S Hawkins and R F Jameson (1995), "Very low mass stars in the galactic cluster Praesepe", *Astron Astrophys Suppl* 109, 29
- N C Hambly, I A Steele, M R S Hawkins and R F Jameson (1995), "The very low-mass main sequence in the Galactic cluster Praesepe", *MNRAS* 273, 505
- C A Haniff, M Scholz and P G Tuthill (1995), "New diameter measurements for 10 Mira variables: implications for effective temperatures, atmospheric structure and pulsation modes", *MNRAS* 276, 640
- S T Hodgkin, R F Jameson and I A Steele (1995), "Chromospheric and coronal activity of low-mass stars in the Pleiades", *MNRAS* 274, 869
- I M Hook, R G McMahon, A R Patnalk, I W A Browne, P N Wilkinson, M J Irwin and C Hazard (1995), "GB1508+5714: a radio-loud quasar with $z=4.30$, and the space density of high-redshift, radio-loud quasars", *MNRAS* 273, L63
- N Jackson et al (1995), "1600+434: a new gravitational lens system", *MNRAS* 274, L25
- N Jackson, W B Sparks, G K Miley and F Macchetto (1995), "HST observations of 3C 305", *Astron Astrophys* 296, 339
- F P Keenan, C R Shaw, B Bates, P L Dufton and S N Kemp (1995), "High-resolution optical observations of two early-type stars towards the high-velocity cloud Complex M", *MNRAS* 272, 599
- D L King, G Vladilo, K Lipman, K S de Boer, M Centurión, P Moritz and N Walton (1995), "NGC 4526 gas, high velocity clouds, and Galactic halo gas: the interstellar medium towards SN 1994D", *Astron Astrophys* 300, 881
- Robin L Kinsburgh and M J Barlow (1995), "DR 1: a W03 star in IC 1613 and its surrounding nebula, S3", *Astron Astrophys* 295, 171
- R L Kinsburgh, M J Barlow and P J Storey (1995), "Properties of the WO Wolf-Rayet stars", *Astron Astrophys* 295, 75
- J H Knapen, J E Beckman, C H Heller, I Shlosman and R S de Jong (1995), "The central region in M100: Observations and modeling", *Astrophys J* 454, 623
- J H Knapen, J E Beckman, I Shlosman, R F Peletier, C H Heller and R S de Jong (1995), "The striking near-infrared morphology of the inner region in M100", *Astrophys J* 443, L73

- J P Kneib, Y Mellier, R Pelló, J Miralda-Escudé, J-F Le Borgne, H Böhringer and J-P Picat (1995), "Dynamics of Abell 2218 from optical and near-IR imagery of arc(let)s and the ROSAT/HRI X-ray map", *Astron Astrophys* 303, 27
- K T Korista et al (1995), "Steps toward determination of the size and structure of the broad-line region in active galactic nuclei - VIII: An intensive HST, IUE, and ground based study of NGC 5548", *Astrophys J Suppl* 97, 285
- A Krabbe et al (1995), "The nuclear cluster of the Milky Way: Star formation and velocity dispersion in the central 0.5 parsec", *Astrophys J* 447, L95
- Konrad Kuijken and Michael Merrifield (1995), "Establishing the connection between peanutshaped bulges and galactic bars", *Astrophys J* 443, L13
- Mark Lacy, Steve Rawlings, Steve Eales and J S Dunlop (1995), "3C 65: old galaxy or buried quasar?", *MNRAS* 273, 821
- J D B Law-Green, S A Eales, J P Leahy, S Rawlings and M Lacy (1995), "4C 39.24: discovery of a "giant" radio galaxy at $z=1.88$ ", *MNRAS* 277, 995
- Keith Lipman and Max Pettini (1995), "Interstellar titanium in the galactic halo", *Astrophys J* 442, 628
- J E Little (1995), "Observations of high velocity gas in the galactic halo", *Irish Astron J* 22,36,
- J E Little, P L Dufton, F P Keenan, N C Hambly, E S Conlon, P J F Brown and L Miller (1995), "A 325 square degree survey of B-type stars at high galactic latitudes", *Astrophys J* 447, 783
- C D McKeith, A Greve, D Downes and F Prada (1995), "The outflow in the halo of M82", *Astron Astrophys* 293, 703
- T R Marsh (1995), "The discovery of a short-period double-degenerate binary star", *MNRAS* 275, L1
- T R Marsh, V S Dhillon and S R Duck (1995), "Low-mass white dwarfs need friends: five new double-degenerate close binary stars", *MNRAS* 275, 828
- Eduardo L Martín and Wolfgang Brandner (1995), "On the evolutionary status of two very active visual binaries", *Astron Astrophys* 294, 744
- E L Martín, J Casares, P A Charles and R Rebolo (1995), "A search for lithium in cataclysmic binaries", *Astron Astrophys* 303, 785
- J M Martín-Mirones, E Martínez-González, J I González-Serrano and J L Sanz (1995), "Intermediate resolution spectroscopy of the radio galaxy B2 0902+34 at $z \sim 3.4$ ", *Astrophys J* 440, 191
- R M Massey and J Meaburn (1995), "The high-speed phenomena of the Orion nebula (M42, NGC 1976) - IV: Velocity imaging and spectroscopy", *MNRAS* 273, 615
- N Metcalfe, T Shanks, R Fong and N Roche (1995), "Galaxy number counts - III: Deep CCD observations to $B=27.5$ mag", *MNRAS* 273, 257
- Casiana Muñoz-Tuñón, Vladimir Gavryusev and Hector O Castañeda (1995), "Supersonic motions in giant HII regions handling 3D data with Matador", *Astron J* 110, 1630
- René D Oudmaijer (1995), "The circumstellar environment of the peculiar F hypergiant IRC+10420", *Astrophys Space Science* 224, 325

- F Patat, N Chugai and P A Mazzali (1995), "Late-time H α emission from the hydrogen shell of SN 1993J", *Astron Astrophys* 299, 715
- S Perlmutter et al (1995), "A supernova at $z=0.458$ and implications for measuring the cosmological deceleration", *Astrophys J* 440, L41
- Max Pettini, Keith Lipman and Richard W Hunstead (1995), "Element abundances at high redshifts: The N/O ratio in a primeval galaxy", *Astrophys J* 451, 100
- Steve Rawlings, Mark Lacy, D S Sivia and S A Eales (1995), "The reddened quasar 3C 22 and its implications", *MNRAS* 274, 428
- R Rebolo, M R Zapatero Osorio and E L Martín (1995), "Discovery of a brown dwarf in the Pleiades star cluster", *Nature* 377, 129
- A Riera, P García-Lario, A Manchado, S R Pottasch and A C Raga (1995), "IRAS 17423-1755: a massive post-AGB star evolving into the planetary nebula stage?", *Astron Astrophys* 302, 137
- P M Rodríguez-Pascual, A de la Fuente, J L Sanz, M C Recondo, J Clavel, M Santos-Lieó and W Wamsteker (1995), "High-resolution spectroscopy of the bright quasar HS 1700+6416", *Astrophys J* 448, 1575
- Nanci S P Sabalisk, Guillermo Tenorio-Tagle, Hector O Castañeda and Casiana Muñoz-Tuñón (1995), "On the supersonic turbulence of NGC 604", *Astrophys J* 444, 200
- Stephen Serjeant, Mark Lacy, Steve Rawlings, Lindsay J King and D L Clements (1995), "Spectroscopic evidence that the extreme properties of IRAS F10214+4724 are due to gravitational lensing", *MNRAS* 276, L31
- M Simon, A M Ghez, Ch,Leinert, L Cassar, W P Chen, R R Howell, R F Jameson, K Matthews, G Neugebauer and A Richichi (1995), "A lunar occultation and direct imaging survey of multiplicity in the Ophiuchus and Taurus star-forming regions", *Astrophys J* 443, 625
- Edward M Sion, Jay B Holberg, Martin A Barstow and Kenneth M Kidder (1995), "Far-ultraviolet and optical spectroscopy of the detached white dwarf- M binary RE J1629+780", *PASP* 107, 232
- A J Slavin, T J O'Brien and J S Dunlop (1995), "A deep optical imaging study of the nebular remnants of classical novae", *MNRAS* 276, 353
- Ian Smail, Iuchard S Ellis, Michael J Fitchett and Alastair C Edge (1995), "Gravitational lensing of distant field galaxies by rich clusters - II: Cluster mass distributions", *MNRAS* 273, 277
- L J Smith, P A Crowther and A J Willis (1995), "A detailed study of a very late WN star in M33", *Astron Astrophys* 302, 830
- I A Steele and R F Jameson (1995), "Optical spectroscopy of low-mass stars and brown dwarfs in the Pleiades", *MNRAS* 272, 630
- Charles C Steidel, Max Pettini and Donald Hamilton (1995), "Lyman limit imaging of high-redshift galaxies - III: New observations of four QSO fields", *Astron J* 110, 2519
- P G Tuthill, C A Haniff and J E Baldwin (1995), "Long-term diameter variations in the long-period variable α Ceti", *MNRAS* 277, 1541
- S Young, J H Hough, D J Axon, J A B ey and M J Ward (1995), "Near-IR spectropolarimetry and modelling of NGC 1068", *MNRAS* 272, 513

Stephen E Zepf, David Carter, Ray M Sharples and Keith M Ashman (1995), "Spectroscopy of candidate young globular clusters in NGC 1275", *Astrophys J* 445, L19

INT

S W Allen (1995), "Starbursts in cooling flows: blue continua and emission-line nebulae in central cluster galaxies", *MNRAS* 276, 947

S W Allen, A C Fabian, A C Edge, H Böhringer and D A White (1995), "Cooling flows, central galaxy-cluster alignments, X-ray absorption and dust", *MNRAS* 275, 741

O Alonso, J Zamorano, M Rego and J Gallego (1995), "Automatic selection of new H α emission-line galaxies using MAMA", *Astron Astrophys Suppl*, 113, 399

A Aparicio et al (1995), "Bright stars and recent star formation in the irregular Magellanic galaxy NGC 2366", *Astron J* 110, 212

A Aparicio and C Gallart (1995), "The stellar content of the Pegasus dwarf irregular galaxy", *Astron J* 110, 2105

E Baron, P H Hauschildt, D Branch, S Austin, P Garnavich, Hong Bae Ann, R M Wagner, A V Filippenko, T Matheson and James Liebert (1995), "Non-LTE spectral analysis and model constraints on SN 1993J", *Astrophys J* 441, 170

M A Barstow et al (1995), "The orbital period of the pre-cataclysmic binary RE 2013+400 and a study of the atmosphere of the DAO white dwarf primary", *MNRAS* 272, 531

N Benítez, E Martínez-González, J I González-Serrano and L Cayon (1995), "R-band imaging of fields around $1 < z < 2$ radio galaxies", *Astron J* 109, 935

W J G de Blok, J M van der Hulst and G D Bothun (1995), "Surface photometry of low surface brightness galaxies", *MNRAS* 274, 235

B J Boyle, T Shanks and S M Croom (1995), "Faint UBVRI CCD sequences for wide-field surveys", *MNRAS* 276, 33

R Carballo, X Barcons and J K Webb (1995), "The absorption spectra of Q1107+487 and Q1442+295", *Astron J* 109, 1531

A Clocchiatti, J C Wheeler, E S Barker, A V Filippenko, T Matheson and J W Liebert (1995), "Spectrophotometric study of SN 1993J at first maximum light", *Astrophys J* 446, 167

P A Crowther, D J Hillier and L J Smith (1995), "Fundamental parameters of Wolf-Rayet stars - II: Tailored analyses of Galactic WNL stars", *Astron Astrophys* 293, 403

P A Crowther, L J Smith, D J Hillier and W Schmutz (1995), "Fundamental parameters of Wolf-Rayet stars - III: The evolutionary status of WNL stars", *Astron Astrophys* 293, 427

P A Crowther, L J Smith and D J Hillier (1995), "Fundamental parameters of Wolf-Rayet stars - IV: Weak-lined WNE stars", *Astron Astrophys* 302, 457

- L Cuesta, J P Phillips and A Mampaso (1995), "The outflow structure of NGC 6537", *Astron Astrophys* 304, 475
- Serge Demers, Paolo Battinelli, M J Irwin and W E Kunkel (1995), "A search for stellar aggregates in dwarf spheroidal galaxies", *MNRAS* 274, 491
- C Eiroa and M M Casali (1995), "The S 269 stellar cluster", *Astron Astrophys* 303, 87
- T Fernández-Castro, R González-Riestra, A Cassatella, A R Taylor and E R Seaquist (1995), "The active phase of the hot component of Z Andromedae", *Astrophys J* 442, 366
- A Fitzsimmons (1995), "UBV CCD photometry towards the halo of M31", *Irish Astron J* 22, 27
- Martín A Guerrero, Letizia Stanghellini and Arturo Manchado (1995), "Extreme nitrogen enrichment in the asymmetrical planetary nebulae MI-75", *Astrophys J* 444, L49
- A Herrero, R P Kudritzki, R Gabler, J M Vilchez and A Gabler (1995), "Fundamental parameters of galactic luminous OB stars - II: A spectroscopic analysis of HDE 226868 and the mass of Cygnus X-1", *Astron Astrophys*, 297, 556
- Mike Irwin, Scott Tremaine and Anna N Zytow (1995), "A search for slow moving objects and the luminosity function of the Kuiper Belt", *Astron J* 110, 3082
- N Jackson and M Eracleous (1995), "On the narrow-line regions of quasars", *MNRAS* 276, 1409
- R D Jeffries (1995), "The kinematics of lithium-rich, active late-type stars: evidence for a low-mass Local Association", *MNRAS* 273, 559
- R D Jeffries, D Bertram and B R Spurgeon (1995), "New, EUV-selected, active binaries from the ROSAT Wide Field Camera all-sky survey", *MNRAS* 276, 397
- S D Kawaler et al (1995), "Whole Earth telescope observations and seismological analysis of the pre-white dwarf PG 2131+066", *Astrophys J* 450, 350
- William C Keel and Paul Martini (1995), "Optical spectroscopy of candidate hot spots in radio galaxies and quasars", *Astron J* 109, 2305
- Barry J Kellett, Gordon E Bromage, Alexander Brown, Robin D Jeffries, David J James, David Kilkenny, Russell M Robb, David Wonnacott, Christopher Lloyd and C Clayton (1995), "44RE 0044+09: A new K dwarf rapid rotator with a white dwarf companion?", *Astrophys J* 438, 364
- T R Kendall, D J Lennon, P J F Brown and P L Dufton (1995), "Blue stragglers in the young galactic association Perseus OB1", *Astron Astrophys* 298, 489
- Kenneth M Lanzetta, David V Bowen, David Tytler and John K Webb (1995), "The gaseous extent of galaxies and the origin of Lyman-alpha absorption systems: A survey of galaxies in the fields of Hubble Space Telescope spectroscopic target QS0s", *Astrophys J* 442, 538
- R López, A Raga, A Riera, G Anglada and R Estalella (1995), "The extended structure of the HH 30 jet and other Herbig-Haro objects in the HL Tauri region", *MNRAS* 274, L19
- Jonathan C McDowell, Claude Canizares, Martin Elvis, Andrew Lawrence, Sera Markoff, Smita Mathur and Belinda J Wilkes (1995), "The Unusual Quasar PG 1407+265", *Astrophys J* 450, 585
- Brian R McNamara (1995), "Blue lobes in the Hydra A cluster central galaxy", *Astrophys J* 443, 77

- E Martínez-González, J J González-Serrano, L Cayón, J L Sanz and J M Martín-Mirones (1995), "Upper limits on Ly α emission at redshift 3.4", *Astron Astrophys* 303, 379
- I G Martínez-Pais and J Casares (1995), "The orbital period of CY UMa", *MNRAS* 275, 699
- K O Mason et al (1995), "Optical identifications of EUV sources from the ROSAT Wide Field Camera all-sky survey", *MNRAS* 274, 1194
- P F L Maxted and R W Hilditch (1995), "The absolute parameters of the Algol-type binary star AF Geminorum", *Astron Astrophys* 301, 149
- N Metcalfe, R Fong and T Shanks (1995), "CCD galaxy photometry and the calibration of photographic surveys", *MNRAS* 274, 769
- Lydie Koch Miramond and Tim Naylor (1995), "Polarimetric observations of Cygnus X-2 and ten nearby field stars", *Astron Astrophys* 296, 390
- D Montes, E De Castro, M J Fernández-Figueroa and M Cornide (1995), "Application of the spectral subtraction technique to the Ca II H & K and H ϵ lines in a sample of chromospherically active binaries", *Astron Astrophys Suppl*, 114, 287
- D Montes, M J Fernández-Figueroa, E De Castro and M Cornide (1995), "Excess H α emission in chromospherically active binaries", *Astron Astrophys* 294, 165
- D Montes, M J Fernández-Figueroa, E De Castro and M Cornide (1995), "Excess H α emission in chromospherically active binaries: the spectroscopic survey", *Astron Astrophys Suppl*, 109, 135
- P S Mulder (1995), "Optical morphology and kinematics of the inner regions of NGC 4736", *Astron Astrophys* 303, 57
- C G Mundall, A J Holloway, A Pedlar, J Meaburn, M J Kukula and D J Axon (1995), "Anisotropic radio and optical emission in the Seyfert nucleus of NGC 3227", *MNRAS* 275, 67
- Charles H Nelson and Mark Whittle (1995), "Stellar and Gaseous kinematics of Seyfert galaxies - I: Spectroscopic data", *Astrophys J Suppl* 99, 67
- P Píllay, A Mampaso, M Manteiga, E Recillas and G Cruz González (1995), "Morphology, kinematics and dynamics of bulges of spirals - I: Kinematics of the bulge of NGC 5055, a MAGN", *Astron J* 109, 140
- E M Puchnarewicz, K O Mason, A Slemiginowska and K A Pounds (1995), "The high-temperature big blue bump in the Seyfert galaxy RE J1034+396", *MNRAS* 276, 20
- Jeri E Reed, J Jeff Hester, A C Fabian and P F Winkler (1995), "The three-dimensional structure of the Cassiopeia A supernova remnant, I, The spherical shell", *Astrophys J* 440, 706
- A Riera, A Raga, R López, G Anglada and R Estalella (1995), "The spatial structure of the HH 30 jet", *Astrophys Space Science*, 224, 551
- U J Schwarz, B P Wakker and H van Woerden (1995), "Distance and metallicity limits of high-velocity clouds", *Astron Astrophys* 302, 364
- A D Scott et al (1995), "A multiwavelength study of the classical nova V4169 Sagittarii", *Astron Astrophys* 296, 439
- K A Southwell, M D Still, Robert Cannon Smith and J S Martin (1995), "The mass ratio of the cataclysmic variable A M Herculis", *Astron Astrophys* 302, 90

- M D Still, V S Dhillon and D H P Jones (1995), "Spectrophotometry of the nova-like variable R W Trianguli in a high state", *MNRAS* 273, 849
- W H de Vries, P D Barthel and R Hes (1995), "Identifications of Gigahertz Peaked Spectrum radio sources", *Astron Astrophys Suppl* 114, 259
- I P Williams, D P O'Ceallaigh, A Fitzsimmons and B G Marsden (1995), "The slow moving objects 1993 SB and 1993 SC", *Icarus*, 116, 180
- Wei Zheng, Enrique Pérez, Steven A Grandi and Michael V Penston (1995), "The variability of optical narrow lines in 3C 390.3", *Astron J* 109, 2355

JKT

- J Bouvier, E Covino, O Kovo, E L Martín, J M Matthews, L Terranegra and S C Beck (1995), "COYOTES II: spot properties and the origin of photometric period variations in T Tauri stars", *Astron Astrophys* 299, 89
- P B Byrne et al (1995), "The photosphere and chromosphere of the RS Canum Venaticorum star, II Pegasi - I: Spots and chromospheric emission in 1991", *Astron Astrophys* 299, 115
- P W Draper, C Done, S M Scarrott and D P Stockdale (1995), "Multi-colour imaging polarimetry of the galaxy NGC 2146", *MNRAS* 277, 1430
- N Eaton, S M Scarrott and P W Draper (1995), "Polarization studies of comet P/Swift-Tuttle", *MNRAS* 273, L59
- M Fernández (1995), "Photometric observations of pre-main sequence objects", *Astron Astrophys Suppl* 113, 473
- F Mignard et al (1995), "Astrometry of double stars with Hipparcos", *Astron Astrophys* 304, 94
- T W Nicholls, G D Boreman and J C Dainty (1995), "Use of a Shack-Hartmann wave-front sensor to measure deviations from a Kolmogorov phase spectrum", *Optics letters* 20, 2461
- T P Prabhu et al (1995), "SN 1993J in M81: optical photometry and spectrophotometry during the first two months", *Astron Astrophys* 295, 403
- M Rabette, N Smith, R Elkins and B McBreen (1995), "Rapid optical variability in the BL Lac AO 0235+164", *Irish Astron J* 22, 171
- Stephen C Russell (1995), "Lithium abundances in δ Scuti stars and their relationship with the lithium dip", *Astrophys J* 452, 747
- R M Sharples, P A Whitelock and M W Feast (1995), "M giants at high galactic latitudes: an old metal-rich population?", *MNRAS* 272, 139
- B Smalley and M M Dworetzky (1995), "The calibration of uvby β photometry for B, A and F stars - I: Fundamental atmospheric parameters", *Astron Astrophys* 293, 446
- John R Spencer et al (1995), "The lightcurve of 4179 Toutatis: Evidence for complex rotation", *Icarus* 117, 71

B Vila-Vilaró, A Robinson, E Pérez, D J Axon, S A Baum, R M González-Delgado, A Pedlar, I Pérez-Fournon, J J Perry and C N Tadhunter (1995), "Circum-nuclear gas flows in NGC 4151", *Astron Astrophys* 302, 58

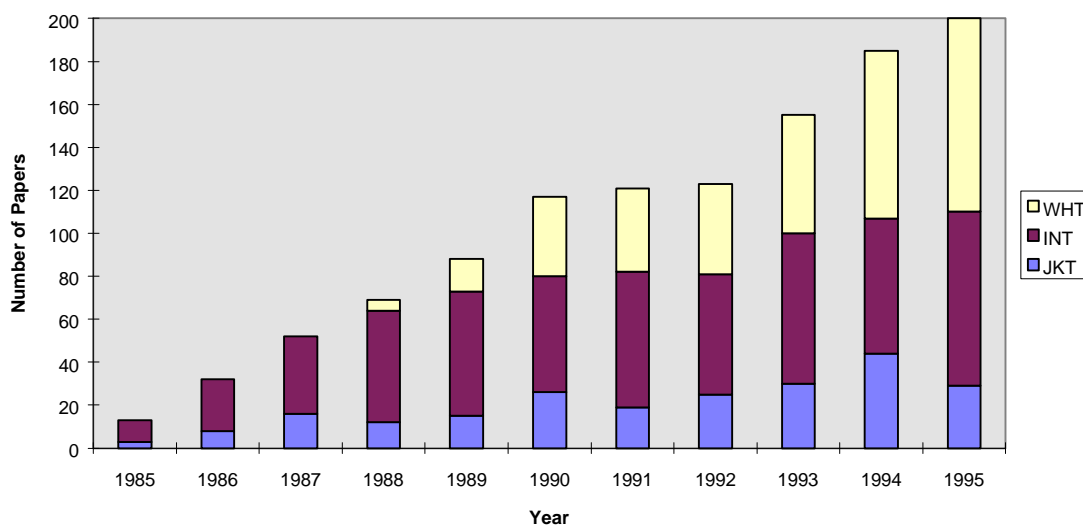
L B F M Waters et al (1995), "Circumstellar gas and dust in 68 Ophiuchi (AOIVe)", *Astron Astrophys* 299, 173

Analysis

The above list contains 162 publications, some of which include results from more than one telescope. 90 papers contain results from the WHT, 81 contain results from the INT and 29 contain results from the JKT. The corresponding figures for 1994 were 78 from the WHT, 63 from the INT and 44 from the JKT. As can be seen from the figure below, the combined publication rate has increased again by 15 publications compared with 1994. In addition the number of papers published from the WHT has again exceeded that from the INT and the number of publications from the WHT and INT is the highest to date.

Note that papers containing results from more than one telescope have been credited to each telescope used.

Figure 1 ING refereed publications 1984-1995



The chart below shows the authorship of all papers from 1984-1995 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.

Figure 2 Paper authorship 1984-1995

