

B. Research papers

The following list includes research papers published from AAT and UKST data, 1 July 1999–30 June 2000, together with papers published by AAO staff from data obtained entirely from other telescopes. It does not include AAO contributions to the IAU circulars, which are used to make urgent announcements, nor does it include all of the papers that have made use of UKST sky survey plates and atlases.

A list of some of the popular articles published by AAO staff members is given on page 91.

Volume numbers appear in bold, followed by the page number and the year of publication. 'A' or 'S' following each entry indicates whether the paper was based on AAT data or UKST data. 'O' indicates publications by AAO staff members using data obtained from other telescopes.

Adami C, Marcelin M, Amram P (Marseille), Russeil D (AAO) 'The intra-cluster medium influence on spiral galaxies' *A&A* **349** 812 1999 (O)

Alexander D M (SISSA/Herts), Efstathiou A (ICSTM), Hough J H, Aitken D K (Herts), Lutz D (MPIE), Roche P F (Oxford), Sturm E (MPIE) 'Observations and a model for the infrared continuum of Centaurus A' *MNRAS* **310** 78 1999 (A)

Alexander D M (Herts/SISSA), Heisler C A (RSAA), Young S (Herts), Lumsden S L (Leeds), Hough J H (Herts), Bailey J A (AAO) 'Constraints on the nuclear emission of the Circinus galaxy: optical and near-IR spectropolarimetry' *MNRAS* **313** 815 2000 (A)

Almaini O, Lawrence A (ROE), Shanks T (Durham), Edge A (Durham), Boyle B J (AAO), Georgantopoulos I (Athens), Gunn K F (Southampton), Stewart G C (Leicester), Griffiths R E (CMU) 'X-ray variability in a deep, flux-limited sample of QSOs' *MNRAS* **315** 325 2000 (O)

Alton P B (Cardiff), Stockdale D P (Durham), Scarrott S M (Durham), Wolstencroft R D (ROE) 'Polarimetric imaging of the polar ring galaxy NGC 660 - evidence for dust outside the stellar disk' *A&A* **357** 443 2000 (S)



- Aoki W (NAOJ), Norris J E (RSAA), Ryan S G (Open U), Beers T C (Michigan), Ando H (NAOJ) 'Detection of lead in the carbon-rich, very metal-poor star LP 625-44: a strong constraint on s-process nucleosynthesis at low metallicity' *ApJL* **536** L97 2000 (A)
- Ash T D C (RAL/Open U), Reynolds A P (ESA), Roche P (Sussex), Norton A J (Open U), Still M D (GSFC), Morales-Rueda L (Sussex) 'The mass of the neutron star in Centaurus X-3' *MNRAS* **307** 357 1999 (A)
- Bailey J (AAO) 'Origin of life' *Nature Australia*, Autumn 2000, p.26 (O)
- Banks G D, Disney M J (Cardiff), Knezek P M (JHU), Jerjen H (RSAA), Barnes D G (ATNF), Bhatal R (WS), de Blok W J G (Melbourne), Malin D F (AAO) et al 'New galaxies discovered in the first blind HI survey of the Centaurus A group' *ApJ* **524** 612 1999 (O)
- Bardelli S, Zucca E, Zamorani G (Bologna), Moscardini L (Padova), Scaramella R (Rome) 'A study of the core of the Shapley Concentration - IV. Distribution of intercluster galaxies and supercluster properties' *MNRAS* **312** 540 2000 (S)
- Barnes J R, Cameron A C, James D J (St Andrews), Donati J -F (OMP) 'Doppler images from dual-site observations of southern rapidly rotating stars - I. Differential rotation on PZ Tel' *MNRAS* **314** 162 2000 (A)
- Barnes J R, Cameron A C, James D J, Watson C A, Vincent F (St Andrews), Donati J -F (OMP) 'Starspot coverage and differential rotation on PZ Tel' in *Stellar Clusters and Associations*, R Pallavicini, G Micela & S Sciortino (eds) p345 2000 (A)
- Beasley M A, Sharples R M (Durham) 'Spectroscopy of globular cluster candidates in the Sculptor group galaxies NGC 253 and 55' *MNRAS* **311** 673 2000 (A,S)
- Belle K E (Wyoming), Lewis G F (Victoria/AAO) 'Microlensing of broad absorption line quasars: polarization variability' *PASP* **112** 320 2000 (O)
- Bhatt H C (Bangalore) 'Magnetic fields in cometary globules - II. CG 30-31 complex' *MNRAS* **308** 40 1999 (S)
- Binette L (UNAM), Kurk J D (Leiden), Villar-Martin M (Herts), Röttgering H J A (Leiden) 'A vestige low metallicity gas shell surrounding the radio galaxy 0943-242 at $z=2.92$ ' *A&A* **356** 23 2000 (A)
- Blair A J, Stewart G C (Leicester), Georgantopoulos I (Athens), Boyle B J (AAO), Griffiths R E (CMU), Shanks T (Durham), Almani O (IfA) 'A deep *ROSAT* survey - XV. The average QSO spectrum and its evolution' *MNRAS* **314** 138 2000 (O)



Bland-Hawthorn J (AAO) 'Clues to galaxy formation' *Nature* **400** 220 1999 (O)

Bland-Hawthorn J (AAO) 'Tunable imaging filters and scientific applications' in *Imaging the Universe in Three Dimensions: Astrophysics with Advanced Multi-Wavelength Imaging Devices*, W van Breugel & J Bland-Hawthorn (eds) p34 2000 (A)

Bland-Hawthorn J (AAO), Freeman K (RSAA) 'The baryon halo of the Milky Way: a fossil record of its formation' *Science* **287** 79 2000 (O)

Blank D L (Sydney), Cram L E (Sydney) 'HI and radio continuum study of the isolated SBa Seyfert galaxy NGC 3783' *MNRAS* **312** 247 1999 (A)

Bonnarel F, Fernique P, Bienaymé O, Egret D, Genova F, Louys M (Strasbourg), et al 'The ALADIN interactive sky atlas. A reference tool for identification of astronomical sources' *A&AS* **143** 33 2000 (S)

Bourke T (HSCA), Hyland A R (Lismore), Robinson G (ADFA), Luhman K (HSCA) 'The evolutionary status of the Frosty Leo Nebula' *Asymmetrical Planetary Nebulae II: From Origins to Microstructures*, J H Kastner, N Soker & S Rappaport (eds), p171 2000 (A)

Boyle B J (AAO) 'QSOs and the 3-D Universe' in *Imaging the Universe in Three Dimensions: Astrophysics with Advanced Multi-Wavelength Imaging Devices*, W van Breugel & J Bland-Hawthorn (eds) p365 2000 (A)

Bratsolis E, Bellas-Velidis I, Dapergolas A, Kontizas E, Kontizas M (Athens) 'Automatic extraction and classification of low-dispersion objective prism stellar spectra' *A&AS* **142** 339 2000 (S)

Bridges T (AAO) 'Halo kinematics' in *Galaxy Dynamics*, D Merritt, J A Sellwood & M Valluri (eds) p415 1999 (O)

Brotherton M S, van Breugel W, Stanford S A (LLNL), Smith R J (RSAA), Boyle B J (AAO), Miller L (Oxford), Shanks T (Durham) et al 'A spectacular poststarburst quasar' *ApJL* **520** L 87 1999 (A)

Bryant J J, Hunstead R W (Sydney) 'An infrared study of Centaurus A' *MNRAS* **308** 431 1999 (A)

Bureau M, Freeman K C, Pfitzner D W (RSAA), Meurer G R (JHU) 'The shape and figure rotation of the dark halo of NGC 2915' *AJ* **118** 2158 1999 (S)

Burleigh M R (Leicester), Saffer R A (Villanova), Gilmore G F (IoA), Napiwotzki R (Bamberg) 'Optical spectroscopy of the candidate



luminous white dwarf in the young Large Magellanic Cloud cluster NGC 1818' *MNRAS* **310** L1 1999 (A)

Butler R P (AAO), Marcy G W, Fischer D A (SFSU), Brown T M (NCAR), Contos A R, Korzennik S G, Nisenson P, Noyes R W (HSCA) 'Evidence for multiple companions to u Andromedae' *ApJ* **526** 916 1999 (O)

Calcáneo-Roldán C, Moore B (Durham), Bland-Hawthorn J, Malin D (AAO), Sadler E M (Sydney) 'Galaxy destruction and diffuse light in clusters' *MNRAS* **314** 324 2000 (O)

Cameron A C (St Andrews), Walter F M (SUNY), Vilhu O (Helsinki), Böhm T, Catala C (OMP), Char S (La Serena), Clarke F J (St Andrews) et al 'Multisite observations of surface structures on AB Doradus in 1994 November' *MNRAS* **308** 493 1999 (A)

Cannon R D (AAO) 'The two-degree field (2dF): a progress report' in *Large scale structure: tracks and traces. 12th Potsdam Cosmology Workshop*, p87 1998 (A)

Caretta C A, Maia M A G, Willmer C N A (ON Brazil) 'A quantitative evaluation of the galaxy component of the COSMOS and APM catalogues' *AJ* **119** 524 2000 (S)

Carter D (Liv JM), Bridges T J (AAO), Hau G K T (IoA) 'Kinematics, abundances and origin of brightest cluster galaxies' *MNRAS* **307** 131 1999 (O)

Cepa J (IAC), Bland-Hawthorn J (AAO), González J J (UNAM) 'OSIRIS: a tunable filter spectrograph for the GTC 10m telescope' in *Imaging the Universe in Three Dimensions: Astrophysics with Advanced Multi-Wavelength Imaging Devices*, W van Breugel & J Bland-Hawthorn (eds) p597 2000 (O)

Chrysostomou A, Gledhill T M (Herts), Ménard F (Grenoble Obs), Hough J H (Herts), Tamura M (NAOJ), Bailey J (AAO) 'Polarimetry of young stellar objects - III. Circular polarimetry of OMC-1' *MNRAS* **312** 103 2000 (A)

Cianci S (Sydney), Bland-Hawthorn J (AAO), O'Byrne J (Sydney) 'Multi-notch and multi-band interference coatings' in *Imaging the Universe in Three Dimensions: Astrophysics with Advanced Multi-Wavelength Imaging Devices*, W van Breugel & J Bland-Hawthorn (eds) p601 2000 (O)

Cianci S (Sydney), Bland-Hawthorn J (AAO), O'Byrne J (Sydney)



'Rugate filters: quasars beyond $z \sim 7$?' in *Imaging the Universe in Three Dimensions: Astrophysics with Advanced Multi-Wavelength Imaging Devices*, W van Breugel & J Bland-Hawthorn (eds) p391 2000 (O)

Clowes R G (Lancashire), Campusano L E (Chile), Graham M J (Lancashire) 'Further observations of quasars in ESO/SERC field 927' *MNRAS* **309** 48 1999 (S)

Colafrancesco S (Rome), Mullis C R (Hawaii), Wolter A (Brera), Gioia I M (Hawaii), Maccacaro T (Brera), Antonelli A (Rome), et al 'An X-ray and optical study of the cluster A33' *A&AS* **144** 187 2000 (S)

Corbett E A (Herts/AAO), Robinson A, Axon D J, Hough J H (Herts) 'A Seyfert-like nucleus concealed in BL Lacertae?' *MNRAS* **311** 485 2000 (O)

Corbin M R, Smith P S (Steward) 'Long-term spectroscopic monitoring of low-redshift quasars. I. 5 year report' *ApJ* **532** 136 2000 (A)

Crawford F L, McKenna F C, Keenan F P (Queens), Aller L H (UCLA), Feibelman W A (GSFC), Ryan S G (AAO) 'Line identifications and intensities for the optical spectrum of RR Telescopii between 3180 and 9455 Å' *A&AS* **139** 135 1999 (A)

Crawford F L, McKenna F C, Keenan F P (Queens), Aller L H (UCLA), Feibelman W A (GSFC), Ryan S G (AAO) 'Line identifications and intensities for the optical spectrum of RR Telescopii between 3180 and 9455 Å in *Thermal and Ionization Aspects of Flows from Hot Stars: Observations and Theory*, H J G L M Lamers & A Sagar (eds) p385 2000 (O)

Crawford I A, Barlow M J (UCL) 'Ultra-high-resolution observations of circumstellar K_1 and C_2 around the post-AGB star HD 56126' *MNRAS* **311** 370 2000 (A)

Croom S M (Durham/AAO), Ratcliffe A (Durham), Parker Q A (AAO), Shanks T (Durham), Boyle B J (AAO), Smith R J (IoA) 'Faint *UBVRI* CCD sequences for wide-field surveys - II. *UBVRI* sequences at $d = -30^\circ$?' *MNRAS* **306** 592 1999 (S)

Croom S M (Durham/AAO), Shanks T (Durham) 'Statistical lensing of faint QSOs by galaxy clusters' *MNRAS* **307**:L17, 1999 (A)

Croom S M (Durham/AAO), Shanks T (Durham), Boyle B J (AAO), Smith R J (RSAA), Miller L, Loaring N S (Oxford) 'The 2dF QSO Redshift Survey' in *Proceedings: Evolution of Large-Scale Structure*, A



- J Bandy, R K Sheth, L N Da Costa (eds) p341 1999 (A)
- Crowther P A (UCL) 'Wind properties of Wolf-Rayet stars at low metallicity: Sk41 (SMC)' *A&A* **356** 191 2000 (A)
- Cumming A, Marcy G W (Berkeley), Butler R P (AAO) 'The Lick planet search: detectability and mass thresholds' *ApJ* **526** 890 1999 (O)
- Davies J I, Kambas A, Morshidi-Esslinger Z, Smith R (Cardiff) 'The radial extent of the Fornax cluster Low Surface Brightness galaxy population' in *The Low Surface Brightness Universe*, J I Davies, C Impey & S Phillipps (eds) p138 1999 (S)
- Davis C J (JAC), Smith M D (Armagh), Eisloffel J (Tautenburg), Davies J K (JAC) 'Excitation and kinematics in H₂ bow shocks: near-infrared observations of HH 99 and VLA 1623A (HH 313)' *MNRAS* **308** 539 1999 (A)
- De Rijcke S, Dejonghe H (Gent) Carter D (Liv JM), Bridges T J (AAO) Hau G K T (UCC) 'A dynamical model for the cD galaxy NGC 6086' in *Dynamics of Galaxies: from the Early Universe to the Present*, F Combes, G A Mamon & V Charmandaris (eds) p255 2000 (O)
- Dessart L, Crowther P A (UCL), Hillier D J (Pitts), Willis A J (UCL), Morris P W (Amsterdam), van der Hucht K A (Utrecht) 'Quantitative analysis of WC stars: constraints on neon abundances from *ISO-SWS* spectroscopy' *MNRAS* **315** 407 2000 (A)
- Domingue D L, Keel W C (Alabama), Ryder S D (JAC/AAO), White R E (Alabama) 'Dust in spiral galaxies: comparing emission and absorption to constrain small-scale and very cold structures' *AJ* **118** 1542 1999 (O)
- Douglas N G (Kapteyn), Taylor K (AAO) 'Galaxy kinematics from counter-dispersed imaging' *MNRAS* **307** 190 1999 (A)
- Drinkwater M J (NSW), Phillipps S, Jones J B (Bristol) 'The Fornax Spectroscopic Survey - low surface brightness galaxies in Fornax' in *The Low Surface Brightness Universe*, J I Davies, C Impey & S Phillipps (eds) p120 1999 (A)
- Drinkwater M J (Melbourne), Phillipps S, Jones J B (Bristol), Gregg M D (LLNL), Deady J H (Bristol), Davies J I (Cardiff), Parker Q A (ROE) et al 'The Fornax spectroscopic survey I. Survey strategy and preliminary results on the redshift distribution of a complete sample of stars and galaxies' *A&A* **355** 900 2000 (A, S)
- Drinkwater M J (NSW), Phillipps S, Jones J B (Bristol), Gregg M D (LLNL), Parker Q A (AAO), Smith R M, Davies J I (Cardiff), Sadler E M



(Sydney) 'Found: high surface brightness compact galaxies' in *The Low Surface Brightness Universe*, J I Davies, C Impey & S Phillipps (eds) p128 1999 (A, S)

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Dunne L, Eales S, Edmunds M (Cardiff), Ivison R (UCL), Alexander P (Cavendish), Clements D L (Cardiff) 'The SCUBA Local Universe Galaxy Survey - I. First measurements of the submillimetre luminosity and dust mass functions' *MNRAS* **315** 115 2000 (S)

Durret F (IAP), Adami C (Marseille), Gerbal D (IAP), Pislak V (IAP) 'Optical and X-ray analysis of the cluster of galaxies Abell 496' *A&A* **356** 815 2000 (S)

Edelson R, Vaughan S, Warwick R (Leicester), Puchnarewicz E (Mullard), George I (GSFC) 'The ROSAT Wide Field Camera extragalactic survey' *MNRAS* **307** 91 1999 (A)

Ellison S L (IoA), Lewis G F (Victoria/AAO), Pettini M (IoA), Chaffee F H (Keck), Irwin M J (IoA) 'HIRES spectroscopy of APM 08279+5255: metal abundances in the Ly α forest' *ApJ* **520** 456 1999 (O)

Ellison S L (IoA), Lewis G F (Victoria/AAO), Pettini M (IoA), Sargent W L W (Palomar), Chaffee F H (Keck), Foltz C B (MMTO), Rauch M (ESO), Irwin M J (IoA) 'Keck HIRES spectroscopy of APM 08279+5255' *PASP* **111** 1 1999 (O)

Folkes S, Ronen S (IoA), Price I (RSAA), Lahav O (IoA), Colless M (RSAA), Maddox S (IoA), Deeley K (AAO) et al 'The 2dF galaxy redshift survey: spectral types and luminosity functions' *MNRAS* **308** 459 1999 (A)

Francis P J (RSAA/ANU), Whiting M T, Webster R L (Melbourne) 'The optical/near-IR colours of red quasars' *PASA* **17** 56 2000 (S)

Freeman K C (RSAA), Arnaboldi M, Capaccioli M (OAC), Ciardullo R, Feldmeier J (Penn State), Ford H (JHU), Gerhard O (Basel) et al 'Intracluster planetary nebulae in the Virgo cluster' in *Dynamics of Galaxies: from the Early Universe to the Present*, F Combes, G A Mamon and V Charmandaris (eds) p389 2000 (A)



- Fuller T M, West M J (St Marys), Bridges T J (AAO) 'Alignments of the dominant galaxies in poor clusters' *ApJ* **519** 22 1999 (O)
- Fynbo J U (ESO), Thomsen B (Aarhus), Møller P (ESO) 'Lya emission from a Lyman limit absorber at $z=3.036$ ' *A&A* **353** 457 2000 (S)
- Galama T J, Vreeswijk P M, van Paradijs J (Amsterdam), Kouveliotou C (NASA), Augusteijn T (ESO), et al 'On the possible association of SN 1998bw and GRB 980425' *A&AS* **138** 465 1999 (S)
- Georgakakis A (Birm), Mobasher B (ICSTM), Cram L, Hopkins A (Sydney), Lidman C (ESO), Rowan-Robinson M (ICSTM) 'The Phoenix survey: optical and near-infrared observations of faint radio sources' *MNRAS* **306** 708 1999 (A)
- Georgakakis A (Birm), Mobasher B (ICSTM), Cram L (Sydney), Hopkins A (Pitts) 'The Phoenix survey: the pairing fraction of faint radio sources' *MNRAS* **310** L15 1999 (A)
- Georgelin Y M (Marseille), Russeil D (Marseille/AAO), Amram P, Georgelin Y P, Marcelin M (Marseille), Parker Q A (AAO), Viale A (Marseille) 'Deep Ha survey of the Milky Way V. The $l=289^\circ$ to 295° area' *A&A* **357** 308 2000 (S)
- Giommi P, Menna M T (ASI), Padovani P (STScI) 'The sedentary multifrequency survey - I. Statistical identification and cosmological properties of high-energy peaked BL Lacs' *MNRAS* **310** 465 1999 (S)
- Girardi M, Borgani S, Giuricin G, Mardirossian F, Mezzetti M (Trieste) 'Optical luminosities and mass-to-light ratios of nearby galaxy clusters' *ApJ* **530** 62 2000 (S)
- Glazebrook K (AAO), Abraham R G (IoA), Blake C A (Oxford) 'Emission line galaxies at $1 < z < 1.5$ ' in *Galaxy Interactions at Low and High Redshift*, J E Barnes & D B Sanders (eds) p467 1999 (O)
- Glazebrook K (AAO), Blake C (Oxford), Economou F (JAC), Lilly S (Toronto), Colless M (RSAA) 'Measurement of the star formation from Ha in field galaxies at $z = 1$ ' *MNRAS* **306** 843 1999 (O)
- Gordon S (Queensland), Koribalski B (ATNF), Houghton S (NSW), Jones K (Queensland) 'A guide to TAURUS-2 Fabry-Perot data reduction' *MNRAS* **315** 248 2000 (S)
- Gouliermis D, Kontizas M, Korakitis R (Athens), Morgan D H (ROE), Kontizas E, Dapergolas A (Athens) 'OB stellar associations in the Large Magellanic Cloud: identification method' *AJ* **119** 1737 2000 (S)



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Hatton S, Cole S (Durham) 'Estimating b from redshift-space distortions in the 2dF galaxy survey' *MNRAS* **310** 1137 1999 (A)

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Hawkins M R S (ROE) 'Quasar variability: correlations with amplitude' *A&AS* **143**: 465 2000 (A)

Haynes R (Durham/AAO), Lee D (AAO), Allington-Smith J, Content R, Dodsworth G (Durham) Lewis I (AAO), Sharples R (Durham) et al 'Multiple-object and integral field near-infrared spectroscopy using fibers' *PASP* **111** 1451 1999 (O)

Heisler C A (RSAA), de Robertis M M (Toronto) 'A near-infrared spectroscopic study of 60 micron peakers' *AJ* **118** 2038 1999 (A)

Heisler C A, Dopita M A, Kewley L J (RSSA), Lumsden S L (AAO) 'Near-infrared spectral mapping of NGC 1614' *A&SS* **266** 181 2000 (A)

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Hoyle F, Baugh C M, Shanks T, Ratcliffe A (Durham) 'The Durham/UKST Galaxy Redshift Survey - VI. Power spectrum analysis of clustering' *MNRAS* **309** 659 1999 (S)

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Ibata R A (ESO), Lewis G F (Victoria/AAO), Irwin M J (IoA), Lehar J (HSCA), Totten E J (Keele) 'NICMOS and VLA observations of the gravitationally lensed ultraluminous BAL quasar APM 08279+5255: detection of a third image' *AJ* **118** 1922 1999 (O)



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Jauncey D L (ATNF), Kedziora-Chudczer L L (AAO), Lovell J E J (ATNF), Nicolson G D (Krugersdorp), Perley R A (NRAO), et al 'The origin of intra-day variability' in *Astrophysical phenomena revealed by space VLBI*, H Hirabayashi, P G Edwards & D W Murphy (eds) p147 2000 (O)

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Jones J B, Phillipps S, Schwartzenberg J M (Bristol), Parker Q A (AAO) 'Low surface brightness dwarf galaxies in the Bristol-Anglo-Australian Observatory Virgo Cluster Survey' in *The Low Surface Brightness Universe*, J I Davies, C Impey & S Phillipps (eds) p84 1999 (S)

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Journal abbreviations

A&A	Astronomy & Astrophysics
A&AS	Astronomy & Astrophysics Supplement Series
A&SS	Astronomy and Space Science
AJ	Astronomical Journal
ApJ	Astrophysical Journal
ApJL	Astrophysical Journal Letters
ApJS	Astrophysical Journal Supplement Series
ASP Conf Ser	Astronomical Society of the Pacific, Conference Series
Aust J Astr	Australian Journal of Astronomy
IAJ	Irish Astronomical Journal
JAH ²	Journal of Astronomical History and Heritage
MNRAS	Monthly Notices of the Royal Astronomical Society
PASP	Publications of the Astronomical Society of the Pacific
Publ ASA	Publications of the Astronomical Society of Australia
SPIE Proc	Proceedings of the International Society for Optical Engineering



