

AAO Publications

The following list includes research papers published from AAT and UKST data, together with papers published by AAO staff from data obtained 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' or 'S' following each entry indicates whether the paper was based on AAT data or UKST data (respectively). 'O' indicates publications by AAO staff members using data obtained from other telescopes or which do not involve telescope data.

Data is grouped by AAO Annual Report periods, which run July to June.

Note: 1995-1996 papers have not been classified 'A', 'O', or 'S'

1996-1997

ABRAHAM R G (CAMBRIDGE), VAN DEN BERGH S (DRAO), GLAZEBROOK K (CAMBRIDGE, AAO), ET AL The morphologies of distant galaxies. II. Classifications from the Hubble Space Telescope Medium Deep Survey *Astrophys Jnl Suppl*, v107, p1, 1996 (O)

AITKEN D (HERTFORDSHIRE), SMITH C (ADFA), MOORE T (ADFA), ROCHE P (OXFORD) 10 micron imaging polarimetry *ASP Conf series vol.102: The galactic center*, p.179, 1996 (A)

AITKEN D K (HERTFORDSHIRE), SMITH C H (ADFA), MOORE T J T (ADFA), ET AL Mid- and far-infrared polarimetric studies of the core of OMC-1: the inner field configuration *Mon Not R astr Soc*, 286:85, 1997 (A)

ALMAINI O (DURHAM), SHANKS T (DURHAM), BOYLE B J (RGO), ET AL A deep ROSAT survey - XII. The X-ray spectra of faint ROSAT sources *Mon Not R astr Soc*, 282:295, 1996 (A)

ASHER D J (AAO), STEEL D I (AAO,ADELAIDE) No meteor storms expected from P/Machholz 2. *IAU Coll 150, Florida, 1995. PASP Conf Proc vol 104*, p.129 (O)

ASHLEY M C B (NSW), BURTON M G (NSW), STOREY J W V (NSW), LLOYD J P (NSW), ET AL South Pole observations of the near-infrared sky brightness *Publ Astron Soc Pacific*, 108:721, 1996 (A)

BAKER J C (MRAO) Origin of the viewing-angle dependence of the optical continuum emission in quasars *Mon Not R astr Soc*, 286:23, 1997 (A)

BANKS T (WELLINGTON), DODD R (WELLINGTON) The initial mass function Aust J Astr, 6(3):91, 1996 (A)

BEDDING T R (SYDNEY), ZIJLSTRA A A (ESO), VON DER LUHE O (ESO), ROBERTSON J G (SYDNEY), MARSON R G (SYDNEY), BARTON J R (AAO), CARTER B S (SAAO) The angular diameter of R Doradus: a nearby Mira-like star Mon Not R astr Soc, 286:957, 1997 (A)

BEGELMAN M C (COLORADO), BLAND-HAWTHORN J (AAO) A well-fed black hole Nature, vol 385, p.22, 1997 (O)

BENITEZ N (SANTANDER), MARTINEZ-GONZALEZ E (SANTANDER) Large-scale QSO-galaxy correlations for radio-loud and optically selected QSO samples Astrophys. J. 477:27, 1997 (S)

BLADES J C (STSI), SAHU M S (STSI), HE L (STSI), ET AL Ultra high resolution observations of interstellar Na I and Ca II K toward the high galactic latitude star HD 28497 Astrophys. J. 478:648, 1997 (A)

BLAND-HAWTHORN J (AAO) Ionized hydrogen at large galactocentric distances Publ Astron Soc Australia, 14:59, 1997 (A)

BLAND-HAWTHORN J (AAO) Ionised hydrogen at large galactocentric distances Publ Astron Soc Aust, 14:64, 1997 (A)

BLAND-HAWTHORN J (AAO), MALONEY P R (COLORADO) The Galactic halo ionizing field Publ Astron Soc Australia, 14:59, 1997 (A)

BOYLE B J (RGO), WILKES B J (HSCA), ELVIS M (HSCA) The Cambridge-Cambridge ROSAT Serendipity Survey - V. Catalogue and optical identifications Mon Not R astr Soc, 285:511, 1997 (O)

BRIDGES T J (RGO), ASHMAN K M (KANSAS), ZEPF S E (CALIFORNIA), ET AL Kinematics and metallicities of globular clusters in M104 Mon Not R astr Soc, 284:376, 1997 (A)

BURTON M G (NSW) Evolution in the nucleus - a review of David Allen's research into the nature of the Galactic Centre. IAU Symp 169 : Unsolved problems of the Milky Way, p.205, The Hague, Holland, 1994 (O)

BYRNE P B (ARMAGH), EIBE M T (ARMAGH), ROLLESTON W R J (ARMAGH) Cool prominences in the corona of the rapidly rotating dMe star, HK Aquarii Astronomy & Astrophysics, 311:651, 1996 (A)

CANNON R (AAO) 2dF: the two-degree field facility on the AAT Wide-field spectroscopy conf, Athens, 1996. pub. Kluwer (O)

CANNON R (AAO) Conference summary Proc Wide field spectroscopy conf, Athens, 1996. pub Kluwer (O)

CANNON R (AAO) Fringing - a user's perspective ESO CCD Workshop, 1996 (O)

CANNON R (AAO), BARTON J (AAO) AAO detectors - present status and future plans ESO CCD Workshop, 1996 (O)

CANNON R (AAO), CROKE B (CRETE), HATZIDIMITRIOU D (CRETE), MORGAN D (ROE) A kinematic survey of carbon stars in the Small Magellanic Cloud IAU Symp 177 - The carbon star phenomenon, Antalya, 1996 (O)

CANNON R (AAO), TAYLOR K (AAO) 2dF on the AAT - project update and first scientific results IAU Asian-Pacific Regional Meeting, Pusan, 1996 (O)

CARIGNAN C (MONTREAL), COTE S (ESO), FREEMAN K C (MSSSO), QUINN P J (ESO) NGC 5084: a massive disk galaxy accreting its satellites? *Astronom Jnl*, 113:1585, 1997 (A)

CHAPMAN J M (AAO), REYNOLDS J, WILSON W, ET AL Detection of compact OH mainline maser emission from the supergiant star VX Sgr ATNF 4th Asia-Pacific Workshop, 1996 (O)

CHRYSOSTOMOU A (HERTFORDSHIRE), MENARD F (GRENOBLE), GLEDHILL T M (HERTFORDSHIRE), ET AL Polarimetry of young stellar objects II: circular polarization of GSS 30 Mon Not R astr Soc, 285: 750, 1997 (A)

CILIEGI P (HSCA), ELVIS M (HSCA), WILKES B J (HSCA), BOYLE B J (RGO), MCMAHON R G (CAMBRIDGE) The Cambridge-Cambridge ROSAT Serendipity Survey - IV. The X-ray properties Mon Not R astr Soc, 284:401, 1997 (O)

CILIEGI P (HSCA), ELVIS M (HSCA), WILKES B J (HSCA), BOYLE B J (CAMBRIDGE) ET AL VLA observations of the Cambridge-Cambridge ROSAT survey IAU Symp 175: Extragalactic radio sources, p.543, 1996 (O)

CLARK N E (SHEFFIELD), TADHUNTER C N (SHEFFIELD), MORGANTI R (BOLOGNA), ET AL Radio, optical and X-ray observations of PKS2250-41: a jet/galaxy collision? Mon Not R astr Soc, 286: 558, 1997 (A)

COLE D M (CHICAGO), VANDEN BERK D E (CHICAGO), SEVERSON S A (CHICAGO), MILLER M C (CHICAGO), GLAZEBROOK K (AAO), ET AL Optical/near-infrared observations of GRO J1744-28 *Astrophys. J.* 480:377, 1997 (O)

CORBET R H D (NASA), CHARLES P A (OXFORD), SOUTHWELL K A (OXFORD), SMALE A P (NASA) A low-amplitude X-ray and optical outburst from the periodic transient A0538-66: accretion onto a magnetosphere? *Astrophys. J.* 476:833, 1997 (A)

COTERA A S (NASA), SIMPSON J P (NASA), ERICKSON E F (NASA), ET AL Interstellar extinction in the vicinity of galactic center thermal radio emission regions ASP Conf series vol.102: The galactic center, p.122, 1996 (A)

CRAWFORD I A (LONDON), CRAIG N (CALIFORNIA), WELSH B Y (CALIFORNIA) The velocity structure of the local interstellar medium probed by ultra-high-resolution spectroscopy *Astronomy & Astrophysics*, 317:889, 1997 (A)

CRISTIANI S (PADOVA), TRENTINI S (PADOVA), LA FRANCA F (ROME), ANDREANI P (PADOVA) The optical variability of QSOs II. The wavelength dependence *Astronomy & Astrophysics*, 321:123, 1997 (S)

CROOM S M (DURHAM), SHANKS T (DURHAM) QSO clustering - III. Clustering in the Large Bright Quasar Survey and evolution of the QSO correlation function *Mon Not R astr Soc* , 281:893, 1996 (A)

CROWTHER P A (LONDON), BOHANNAN B (NOAO) The distinction between O Iafpe and WNLha stars: a spectral analysis of HD 151804, HD 152408 and HDE 313846 *Astronomy & Astrophysics*, 317:532, 1997 (A)

CROWTHER P A (UCL), SMITH L J (UCL) Fundamental parameters of Wolf-Rayet stars VI. Large Magellanic Cloud WNL stars *Astronomy & Astrophysics*, 320:500, 1997 (A)

DI NELLA H (LYON), COUCH W J (UNSW), PARKER Q A (AAO), PATUREL G (LYON) Unveiling a connection between large-scale structures behind the southern Milky Way *Mon Not R astr Soc*, 287:472, 1997 (S)

DI NELLA H (MPIA), COUCH W J (UNSW), PATUREL G (LYON), PARKER Q A (AAO) Are the Perseus-Pisces chain and the Pavo-Indus wall connected? *Mon Not R astr Soc*, 283:367, 1996 (S)

DOUGLAS N G (AAO) Optical methane-band observations of Jovian Shoemaker-Levy 9 impact debris *Astronomy & Astrophysics*, 313: 315, 1996 (O)

DRINKWATER M J (AAO), COMBES F (DEMIRM), WIKLIND T (ONSALA) A search for molecular absorption in the tori of active galactic nuclei. *Astronomy & Astrophysics*, 312:771, 1996 (O)

DRINKWATER M J (AAO), COMBES F (PARIS), WIKLIND T (ONSALA) A search for molecular absorption in the tori of active galactic nuclei *Astronomy & Astrophysics*, 312:3, p771, 1996 (O)

DRINKWATER M J (AAO), FRANCIS P J (MELBOURNE), WEBSTER R L (MELBOURNE) Spectral properties of Parkes flat-spectrum radio sources ASP Conf series v.113, IAU Coll 159, p437, 1997 (O)

DRINKWATER M J (AAO), GREGG M D (CALIFORNIA), HOLMAN B A (MELBOURNE) The nature of dwarf ellipticals in Virgo and Fornax Proc 2nd Stromlo Symp. 1996, ASP Conf series vol 116, p.287, 1997 (S)

DRINKWATER M J (AAO), WEBSTER R L (MELBOURNE), FRANCIS P J (MELBOURNE), CONDON J J (NRAO), ELLISON S L (KENT), JAUNCEY D L (ATNF), LOVELL J (TASMANIA), PETERSON B A (MSSSO), SAVAGE A (AAO) The Parkes half-jansky flat-spectrum sample *Mon Not R astr Soc*, 284:85, 1997 (S)

DRIVER S P (NSW), PHILLIPPS S (BRISTOL) Is the luminosity distribution of field galaxies really flat? *Astrophys. J.* 469:529, 1996 (S)

DRIVER S P (NSW), PHILLIPPS S (BRISTOL) Is the luminosity distribution of field galaxies really flat? *Astrophys. J.* 469:529, 1996 (S)

DUNKIN S K (UCL), BARLOW M J (UCL), RYAN S G (AAO) High-resolution spectroscopy of Vega-like stars - I. Effective temperatures, gravities and photospheric abundances *Mon Not R astr Soc*, 286: 604, 1997 (A)

ELMOUTTIE M (QUEENSLAND), HAYNES R F (ATNF), JONES K L (QUEENSLAND), ET AL The radio continuum structure of the edge-on spiral galaxy NGC 4945 *Mon Not R astr Soc* , 284:830, 1997 (A)

ESCALERA E (ROE), MACGILLIVRAY H T (ROE) Detection of structures on multiple scales around the South Galactic Pole *Astronomy & Astrophysics Supplement* 118, 519, 1996 (S)

FERRARIO L (ANU), BAILEY J (AAO), WICKRAMASINGHE D (ANU) The magnetic fields of EF Eridani and BL Hydri *Mon Not R astr Soc*, 282:218, 1996 (A)

FRANCIS P J (MELBOURNE) The continuum slopes of optically selected QSOs *Publ Astron Soc Australia*, 13:3, p212, 1996 (S)

FRANCIS P J (MELBOURNE), WEBSTER R L (MELBOURNE), MASCI F J (MELBOURNE), DRINKWATER M J (AAO), PETERSON B A (MSSSO) The spectra of dusty quasars ASP Conf series vo. 113, IAU Coll 159, p130, 1997 (A)

FRANCIS P J (MELBOURNE), WEBSTER R J (MELBOURNE), PETERSON B A (MSSSO), DRINKWATER M J (AAO) Dust obscured quasars New extragalactic perspectives in the new South Africa, p.501, 1996 (A)

GALLETTA G (PADOVA), SAGE L J (MARYLAND), SPARKE L S (WISCONSIN) Molecular gas in polar-ring galaxies Mon Not R astr Soc , 284:773, 1997 (S)

GLAZEBROOK K (AAO) perl as an astronomer-friendly language - the pperl experience ASP Conf series vol.101: Astronomical data analysis software and systems V, p.307, 1996 (O)

GLAZEBROOK K (AAO) Deep near-infrared surveys - understanding galaxy evolution at z greater than 1 Moriond 1997 Conference proceedings, review talk (A)

GLEDHILL T M (HERTFORDSHIRE), CHRYSOSTOMOU A (HERTFORDSHIRE), HOUGH J H (HERTFORDSHIRE) Linear and circular imaging polarimetry of the Chamaeleon Infrared Nebula Mon Not R astr Soc, 282: 1418, 1996 (A)

GRIFFITHS R E (JHU), DELLA CECA R (JHU), GEORGANTOPOULOS I (LEICESTER), BOYLE B J (CAMBRIDGE), ET AL A deep ROSAT survey - X. X-ray-luminous narrow-emission-line galaxies Mon Not R astr Soc , 281:71, 1996 (O)

GUENTHER E W (TAUTENBURG), EMERSON J P (LONDON) Spectrophotometry of flares and short time scale variations in weak line, and classical T Tauri stars in Chamaeleon Astronomy & Astrophysics, 321:803, 1997 (S)

GUNN A C (ARMAGH), DOYLE J G (ARMAGH), HOUDEBINE E R (ESA) Environments of active close binaries II. GK Hydrae and TY Pyxidis Astronomy & Astrophysics, 319:211, 1997 (A)

HAKALA P J (OXFORD), CHARLES P A (OXFORD), JOHNSTON H M (UTRECHT, AAO), VERBUNT F (UTRECHT) X-ray detection of the dwarf nova V101 in M5 Mon Not R astr Soc , 285:693, 1997 (O)

HARLAFTIS E T (ST ANDREWS), CHARLES P A (OXFORD), HORNE K (ST ANDREWS) Detection of the X-ray-heated companion of X1822-371 Mon Not R astr Soc , 285:673, 1997 (A)

HARRIES T J (ST ANDREWS) Accretion-disk reflection of the bipolar wind of BI Crucis Astronomy & Astrophysics, 315:499, 1996 (A)

HARRIES T J (ST ANDREWS), HOWARTH I D (LONDON) Raman scattering in symbiotic stars. I. Spectropolarimetric observations Astronomy & Astrophysics Supplement, V119 No.1, p61, 1996 (A)

HARRIES T J (ST ANDREWS), HOWARTH I D (LONDON) Raman scattering in symbiotic stars. II. Numerical models *Astronomy & Astrophysics Supplement*, 121:15, 1997 (A)

HATZIDIMITRIOU D (CRETE), CROKE B F (CRETE), MORGAN D H (ROE), CANNON R D (AAO) Kinematics of carbon stars in the outer regions of the Small Magellanic Cloud *Astronomy & Astrophysics Supplement*, 122:507, 1997 (S)

HAWKINS M R S (ROE), VERON P (OHP) The space density of quasars at z greater than 4 *Mon Not R astr Soc*, 281:348, 1996 (S)

HEISLER C A (AAO, MSSSO), HILL T L (AAO, SYDNEY), MCCALL M L (ONTARIO), HUNSTEAD R W (SYDNEY) The Sculptor dwarf irregular galaxy SDIG: present and past *Mon Not R astr Soc*, 285:374, 1997 (A)

HEISLER C A (MSSSO), HILL T L (SYDNEY), MCCALL M L (YORK, CANADA), HUNSTEAD R W (SYDNEY) The Sculptor dwarf irregular galaxy SDIG: a progenitor dwarf spheroidal? *The Second Stromlo Symposium: The nature of elliptical galaxies*, ASP Conf series, vol 116 p.300, 1997 (A)

HEISLER C A (MSSSO), LUMSDEN S L (AAO), BAILEY J A (AAO) Visibility of scattered broad-line emission in Seyfert 2 galaxies *Nature*, v.385: 700, 1997 (A)

HELD E V (PADOVA), MOULD J R (MSSSO), FREEMAN K C (MSSSO) Internal kinematics of dwarf and low-luminosity elliptical galaxies *Second Stromlo Symposium: The nature of elliptical galaxies*, ASP Conf series vol 116 p.292, 1997 (A)

HERNIUS O (UPPSALA), LAGERKVIST C I (UPPSALA), LINDGREN M (UPPSALA), ET AL UESAC - the Uppsala-ESO survey of asteroids and comets *Astronomy & Astrophysics*, 318:631, 1997 (A)

HEYL J (CAMBRIDGE), COLLESS M (MSSSO), ELLIS R S (CAMBRIDGE), BROADHURST T (JHU) Autofib Redshift Survey - II. Evolution of the galaxy luminosity function by spectral type *Mon Not R astr Soc*, 285:613, 1997 (A)

IMPEY C D (STEWART), SPRAYBERRY D (STEWART), IRWIN M J (RGO), BOTHUN G D (OREGON) Low surface brightness galaxies in the local universe. I. The catalog *Astrophys Jnl Suppl*, 105: 209, 1996 (S)

IOVINO A (MILANO), CLOWES R (PRESTON), SHAVER P (ESO) A large sample of objective prism quasar candidates *Astronomy & Astrophysics Supplement*, 119:265, 1996 (S)

IYENGAR K V K (BANGALORE), PARTHASARATHY M (BANGALORE) BVRI photometry of a few 'unidentified' IRAS sources *Astronomy & Astrophysics Supplement*, 121:45, 1997 (S)

JEFFRIES R D (KEELE), BUCKLEY D A H (SAAO), JAMES D J (BIRMINGHAM), STAUFFER J R (HSCA) 2RE J0241 - 525: a nearby post-T Tauri visual binary system Mon Not R astr Soc, 281: 1001, 1996 (A)

JOHNSTON H M (UTRECHT, AAO), VERBUNT F (UTRECHT) The globular cluster population of low-luminosity X-ray sources Astronomy & Astrophysics, 312:80, 1996 (O)

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JONES D H (AAO), BLAND-HAWTHORN J (AAO), BURTON M G (UNSW) Numerical evaluation of OH airglow suppression filters Publ Astron Soc Pacific, 108:929, 1996 (O)

JONES H (MSSSO), BLAND-HAWTHORN J (AAO) TTF survey of galaxy populations Publ Astron Soc Aust, 14:8, 1997 (A)

KEMP S N (BELFAST), BATES B (BELFAST), HAMBLY N C (BELFAST) Further optical and UV spectroscopy of stars in the direction of the Riegel & Crutcher cold cloud Mon Not R astr Soc, 283:1089, 1996 (A)

KENDALL T R (BELFAST), DUFTON P L (BELFAST), KEENAN F P (BELFAST), ET AL Abundance analyses of a sample of five faint blue stars in the galactic halo Astronomy & Astrophysics, 317:82, 1997 (A)

KERR T H (NOTTINGHAM), HIBBINS R E (NOTTINGHAM), MILES J R (NOTTINGHAM), ET AL Molecular rotational contour fitting of ultra-high-resolution profiles of diffuse interstellar bands Mon Not R astr Soc, 283, L105, 1996 (A)

KHARCHENKO N (KIEV), SCHOLZ R D (POTSDAM), LEHMANN I (BERLIN) Membership and structural parameters of the globular cluster M5 from Schmidt plates Astronomy & Astrophysics Supplement, 121:439, 1997 (S)

KILKENNY D (SAAO), O'DONOGHUE D (CAPE TOWN), KOEN C (SAAO), ET AL The Edinburgh-Cape Blue Object Survey - II. Zone 1 - the North Galactic Cap Mon Not R astr Soc, 287:867, 1997 (A)

KIM A G (CALIFORNIA), GABI S (CALIFORNIA), GOLDHABER G (CALIFORNIA), GLAZEBROOK K (AAO), ET AL Implications for the Hubble Constant from the first seven supernovae at z greater than or equal to 0.35 Astrophys. J. 476:L63, 1997 (O)

KOTILAINEN J K (TURKU), FORBES D A (LICK), ET AL Near-infrared line and continuum imaging of the nuclear starburst region of NGC 1808 *Astronomy & Astrophysics*, 313: 771, 1996 (A)

KRAAN-KORTEWEG R C (PARIS), FAIRALL A P (CAPE TOWN), WOUDT P A (CAPE TOWN), VAN DE STEENE G C (ESO) Two new planetary nebulae discovered in a galaxy search in the southern Milky Way *Astronomy & Astrophysics*, 315:549, 1996 (S)

KUNKEL W E (CIW), IRWIN M J (RGO), DEMERS S (MONTREAL) Carbon stars in the halo of the Magellanic Clouds: identification and radial velocity data *Astronomy & Astrophysics Supplement*,122:463, 1997 (S)

LARSON K A (RENSSELAER), WHITTET D C B (RENSSELAER), HOUGH J H (HERTFORDSHIRE) Interstellar extinction, polarization, and grain alignment in the high-latitude molecular cloud toward HD210121 *Astrophys. J.*472:755, 1996 (A)

LEE S (AAO) Build your own 20cm Newtonian telescope project part 1 *Sky & Space*, vol.9 no.2, p51, 1996 (O)

LEE S (AAO) Technical tips (finder 'scope) *Sky & Space*, vol.9 no.2 p.60, 1996 (O)

LEE S (AAO) Build your own 20cm Newtonian telescope project part 2 *Sky & Space*, vol.9 no.3, p.59, 1996 (O)

LEE S (AAO) Build your own 20cm Newtonian telescope project part 3 *Sky & Space*, vol.9 no.4, p.59, 1996 (O)

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LELLOUCH E (PARIS) Chemistry induced by the impacts: observations IAU Coll 156, The collision of Comet Shoemaker-Levy 9 and Jupiter, p.213, 1997 (A)

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LIDMAN C E (ESO), PETERSON B A (MSSSO) An optically based search for distant galaxy clusters Astronom Jnl, V112 N6, p2454, 1996 (A)

LINDGREN M (UPPSALA), TANCREDI G (URUGUAY), LAGERKVIST C I (UPPSALA), HERNIUS O (UPPSALA) Searching for comets encountering Jupiter. Second campaign observations and further constraints on the size of the Jupiter family population Astronomy & Astrophysics Supplement, 118:293, 1996 (S)

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MALIN D (AAO) Peculiar galaxies Astronomy Now, vol 11 no 1, p.51 (S)

MALIN D (AAO), HADLEY B (ROE) HI in shell galaxies and other merger remnants PASA, HI in the local universe meeting, ATNF, May 1996 (S)

MALIN D (AAO), HADLEY B (ROE) HI in shell galaxies and other merger remnants Publ Astron Soc Aust, 14:52, 1997 (S)

MALIN D F (AAO) Images - Bok globules in IC 2944 Sky & Telescope, 92:20, 1996 (A)

MALIN D F (AAO) Images - The Triffid Nebula Sky & Telescope, 92:20, 1996 (A)

MALIN D F (AAO) Images - NGC 300 Sky & Telescope, 93:26, 1997 (A)

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MATARRESE S (PADOVA), COLES P (LONDON), LUCCHIN F (PADOVA), MOSCARDINI L (PADOVA) Redshift evolution of clustering Mon Not R astr Soc , 286:115, 1997 (A)

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