

CURRICULUM VITAE

FULL NAME: George Petros EFSTATHIOU
NATIONALITY: British
DATE OF BIRTH: 2nd Sept 1955

QUALIFICATIONS

Dates	Academic Institution	Degree
10/73 to 7/76	Keble College, Oxford.	B.A. in Physics
10/76 to 9/79	Department of Physics, Durham University	Ph.D. in Astronomy

EMPLOYMENT

Dates	Academic Institution	Position
10/79 to 9/80	Astronomy Department, University of California, Berkeley, U.S.A.	Postdoctoral Research Assistant
10/80 to 9/84	Institute of Astronomy, Cambridge.	Postdoctoral Research Assistant
10/84 to 9/87	Institute of Astronomy, Cambridge.	Senior Assistant in Research
10/87 to 9/88	Institute of Astronomy, Cambridge.	Assistant Director of Research
10/88 to 9/97	Department of Physics, Oxford.	Savilian Professor of Astronomy
10/88 to 9/94	Department of Physics, Oxford.	Head of Astrophysics
10/97 to present	Institute of Astronomy, Cambridge.	Professor of Astrophysics (1909)
10/04 to 9/08	Institute of Astronomy, Cambridge.	Director
10/08 to present	Kavli Institute for Cosmology, Cambridge.	Director

PROFESSIONAL SOCIETIES

Fellow of the Royal Society	since 1994
Fellow of the Institute of Physics	since 1995
Fellow of the Royal Astronomical Society	1983-2010
Member of the International Astronomical Union	since 1986
Associate of the Canadian Institute of Advanced Research	since 1986

AWARDS/Fellowships/Major Lectures

1973	Exhibition	Keble College Oxford.
1975	Johnson Memorial Prize	University of Oxford.
1977	McGraw-Hill Research Prize	University of Durham.
1980	Junior Research Fellowship	King's College, Cambridge.
1984	Senior Research Fellowship	King's College, Cambridge.
1990	Maxwell Medal & Prize	Institute of Physics.
1990	Vainu Bappu Prize	Astronomical Society of India.
1991	Fairchild Distinguished Scholar	California Institute of Technology.
1992	Kelvin Lecturer	British Association for the Advancement of Science.
1994	Astrophysics Prize	Bodossaki Foundation, Athens
1994	Fellow of the Royal Society	
1994	PPARC Senior Research Fellowship	
1997	Robinson Prize in Cosmology	University of Newcastle
2002	Moore Visiting Fellow	Caltech
2004	Sackler Lecturer	CITA University of Toronto
2005	Heineman Prize for Astronomy (jointly with S.D.M. White)	American Astronomical Society
2008	Group Award (2dF Galaxy Survey)	Royal Astronomical Society
2011	Gruber Cosmology Prize (jointly with M. Davis, C.S. Frenk, S.D.M.White)	Peter and Patricia Gruber Foundation

PPARC/HEFC COMMITTEES

1988 – 1991	Education, Training and Fellowships Panel
1988 – 1991	Starlink Users Committee
1991 – 1993	Ground Based Programme Committee
1991 – 1993	Astronomy and Planetary Science Board
1993 – 1994	Astronomy and Astrophysics Committee
1995 – 1998	Space Science Advisory Committee
1998 – 2001	Astronomy Committee
1999 – 2001	Particle Physics Committee
2001 – 2004	PPARC Council
2001 – 2004	Education, Training and Careers (Chair)
2006 – 2008	Member of Physics RAE panel

ROYAL SOCIETY COMMITTEES

1995–1998	Member Sectional Committee V
1995–1998	Member Hooke Committee
2003–2004	Member Sectional Committee V
2004–2006	Chair Sectional Committee V

RESEARCH STUDENTS (Ph.D./D.Phil.)

R.I. Jedrezejewski	1982 – 1984	CCD Surface Photometry of Elliptical Galaxies
J. Gorgas	1984 – 1987	Line-Strength Gradients in Early-Type Galaxies
S.J. Maddox	1983 – 1988	A Survey of Southern Galaxies and Clusters
P.V.B. Lilje	1984 – 1988	Large-Scale Peculiar Velocities in the Universe
O. Lahav	1985 – 1988	The Dipole Anisotropy in Optical and Infrared Catalogues
J.N. Loveday	1985–1989	A Bright Galaxy Catalogue and Redshift Survey in the Southern Sky
W.J. Sutherland	1986–1989	Large Scale Structure in the Universe
S.M. Cole	1986–1989	Evolution of Large Scale Structure and Galaxy Formation
G.B. Dalton	1989 -1992	Clustering of Rich Clusters of Galaxies
S. Vasser	1990 -1995	A Survey of Compact Groups and Galaxies
C.M. Baugh	1990 -1994	Statistical Analysis of Large-Scale Structure in the Universe
R.A.C. Croft	1991 -1995	N-body Simulations of Galaxy Clustering
H. Tadros	1992– 1996	Power Spectrum Analysis of Large-Scale
A. Leonard	1994– 1998	Cosmological Hydrodynamics
I. Schmodlt	1995– 1998	Large-scale Peculiar Velocity Fields in the Universe
J. Schaye	1997– 2000	Statistics of the Lyman α Forest.
S. Moody	1998– 2002	Analysis of the 2dF Survey.
L. Wright	1998– 2002	The Formation of Disc Galaxies.
P. Johansson	2002–2006	Galaxy Formation.
S. Chongchitnan	2003– 2007	Cosmological Inflation.
D. Hanson	2007– 2010	The Microwave Background Beyond the Power Spectrum
Y. Ma	2009– 2011	Cosmology with the CMB.
C. Crowe	2009– present	B-mode detection with Planck.

20 Most Significant Papers¹

- [R8] **Massive Neutrinos and the Large-Scale Structure of the Universe**, 1980, J.R. Bond, G. Efstathiou and J. Silk, *Phys. Rev. Lett.*, **45**, 1980.

First analysis of effects of massive neutrinos and their effect on structure formation. Also mentioned the possibility of cold dark matter.

- [R10*] **On the Clustering of Particles in an Expanding Universe**, 1981, G. Efstathiou and J.W. Eastwood, *MNRAS*, **194**, 503.

First large-scale cosmological numerical simulations. Introduced hybrid numerical techniques (particle-particle-particle-mesh) to cosmology.

- [R12*] **Further Observations of the Elliptical Galaxy NGC5813**, 1982, G. Efstathiou, R.S. Ellis, and D. Carter, *MNRAS*, **201**, 975.

First discovery of a kinematically distinct core in an elliptical galaxy and strong limits on the dark matter distribution in the outer parts an elliptical galaxy.

- [R16] **The Kinematic Properties of Faint Elliptical Galaxies**, 1983, R.L. Davies, G. Efstathiou, S.M. Fall, G. Illingworth and P.L. Schechter, *Ap. J.*, **266**, 41.

Discovery of a relationship between the rotational properties of elliptical galaxies and their luminosity.

- [R19] **Cosmic Background Radiation Anisotropies in Universes Dominated by Non-Baryonic Dark Matter**, 1984, J.R. Bond and G. Efstathiou, *Ap. J.*, **285**, L45.

First computations of the CMB anisotropies in the cold dark matter scenario for structure formation.

- [R21*] **Numerical Techniques for Large Cosmological Simulations**, 1985, G. Efstathiou, M. Davis, C.S. Frenk and S.D.M. White, *Ap. J. Suppl. Ser.*, **57**, 241.

Discussion of numerical techniques for large dark matter simulations, including techniques for generating initial conditions with an arbitrary power spectrum. Widely used in numerical cosmology today.

- [R23] **The Evolution of Large-Scale Structure in a Universe Dominated by Cold Dark Matter**, 1985, M. Davis, G. Efstathiou, C.S. Frenk and S.D.M. White, *Ap. J.*, **292**, 371.

First of a series of papers investigating numerically the formation of structure in the cold dark matter scenario.

- [R35] **The Statistics of Cosmic Background Radiation Fluctuations**, 1987, J.R. Bond and G. Efstathiou, *MNRAS*, **226**, 655.

¹Numbers refer to entries in main reference list.

Analysis of the statistical properties of the CMB as a 2-dimensional Gaussian random field. First computations of the CMB power spectrum accurate at all multipoles for adiabatic and isocurvature fluctuations.

- [R48] **Galaxy Correlations on Large Scales**, 1990, S.J. Maddox, G. Efstathiou, W.J. Sutherland and J. Loveday, *MNRAS*, **242**, 43p

Presentation of the first results on large-scale structure from the APM Galaxy Survey, the largest photometric galaxy survey at the time. First evidence for a discrepancy with the scale-invariant cold dark matter model with zero cosmological constant.

- [R53*] **Large-Scale Clustering of IRAS Galaxies**, 1990, G. Efstathiou, N. Kaiser, W. Saunders, A. Lawrence, M. Rowan-Robinson, R.S. Ellis and C.S. Frenk, *MNRAS*, **247**, 10p.

First results on large-scale clustering from an IRAS selected redshift survey, showing excess large-scale power consistent with the results from the APM Galaxy Survey.

- [R55*] **The Cosmological Constant and Cold Dark Matter**, 1990, G. Efstathiou, W.J. Sutherland and S.J. Maddox, *Nature*, **348**, 705.

Summary of several pieces of experimental evidence, including observations of clustering in the APM survey, strongly suggesting a non-zero cosmological constant. The favoured values of the cosmological parameters in this paper are close to the values generally accepted today.

- [R60] **Excursion Set Mass Functions for Hierarchical Gaussian Fluctuations**, 1991, J.R. Bond, S. Cole, G. Efstathiou and N. Kaiser, *Ap. J.*, **379**, 440.

Development of a novel way of theoretically computing the mass function of non-linear structure that allows construction of merger trees. Widely used in semi-analytic models of galaxy formation.

- [R66*] **Suppressing the Formation of Dwarf Galaxies via Photoionization**, 1992, G. Efstathiou, *MNRAS*, **256**, 43p.

Discussion of the effects of photoionizing radiation suppressing radiative cooling, and therefore the formation of dwarf galaxies in the early Universe.

- [R88*] **An Anthropic Argument for a Cosmological Constant**, 1995, Efstathiou, G., *MNRAS*, **274**, L73.

Significant extension of Weinberg's anthropic argument for a cosmological constant.

- [R112*] **Cosmic Confusion: Degeneracies among Cosmological Parameters Derived from Measurements of Microwave Background Anisotropies**, 1999, Efstathiou G., Bond, J.R., *MNRAS*, **304**, 75.

Extensive analysis of degeneracies between cosmological parameters from observations of the cosmic microwave background anisotropies and how these degeneracies can be broken using complementary cosmological observations.

- [R115*] **Constraints on Ω_Λ and Ω_m from Distant Type 1a Supernovae and Cosmic Microwave Background Anisotropies**, Efstathiou G., Bridle, S., Lasenby A.N., Ellis R.S., Perlmutter S., MNRAS, 1999, **303**, L47.

First application of the methods described in [R112*] to Type 1a supernovae and observations of the CMB.

- [R142] **The 2dFGRS Galaxy Redshift Survey: Spectra and redshifts** Matthew Colless, G.B.Dalton, S.J.Maddox, W.J.Sutherland, P.Norberg, S.Cole, J.Bland-Hawthorn, T.J.Bridges, R.D.Cannon, C.A.Collins, W.J Couch, N.G.J.Cross, K.Deeley, R.DePropis, S.P.Driver, G.Efstathiou, R.S.Ellis, C.S.Frenk, K.Glazebrook, C.A.Jackson, O.Lahav, I.J.Lewis, S.L.Lumsden, D.S.Madgwick, J.A.Peacock, B.A.Peterson, I.A.Price, M.Seaborne, K.Taylor, 2001, MNRAS, 328, 1039.

Summary paper describing the 2dF Galaxy Redshift Survey, a large fibre-optic spectroscopic survey based on the APM Galaxy Survey constructed by my group. I wrote much of the initial science case for the observing proposal and developed the adaptive tiling technique to increase the observing efficiency.

- [R151*] **Evidence for a non-zero Lambda and a low matter density from a combined analysis of the 2dF Galaxy Redshift Survey and Cosmic Microwave Background Anisotropies**, George Efstathiou, Stephen Moody, John A. Peacock, Will J. Percival, Carlton Baugh, Joss Bland-Hawthorn, Terry Bridges, Russell Cannon, Shaun Cole, Matthew Colless, Chris Collins, Warrick Couch, Gavin Dalton, Roberto De Propis, Simon P. Driver, Richard S. Ellis, Carlos S. Frenk, Karl Glazebrook, Carole Jackson, Ofer Lahav, Ian Lewis, Stuart Lumsden, Steve Maddox, Peder Norberg, Bruce A. Peterson, Will Sutherland, Keith Taylor. 2002, MNRAS, 330, L29.

First application of the methods described in [R112*] to observations of large-scale clustering from the 2dF Galaxy Redshift Survey and observations of the CMB.

- [R172*] **Myths and Truths Concerning the Estimation of Power Spectra**, G. Efstathiou, 2004, MNRAS, 349, 603.

Mathematical analysis of various techniques for estimating power spectra, with particular emphasis on observations of the cosmic microwave background anisotropies. Proposal for a hybrid estimation method combining maximum likelihood techniques at low multipoles with psuedo-harmonic techniques at high multipoles. Now widely used for power spectrum and likelihood estimation, including WMAP and Planck.

- [R236] **Planck Early Results: The Planck mission**, Planck Collaboration, 2011, arXiv:1101.2022.

Summary paper describing first results and performance of the Planck mission in flight. I have been involved in the Planck mission since the first proposals in 1992 and have been a member of the Phase A evaluation team (pre-selection) and Science Team since the mission was approved by ESA in 1996. I have played a key role in defining the scientific case of the mission, which will report its main cosmological results in 2013.

REFEREED PUBLICATIONS²

- [R1*] **On the Apparent Flattening of Elliptical Galaxies**, 1978, G. Efstathiou, and R.S. Ellis, *MNRAS*, **185**, 559.
- [R2*] **The Rotation of Galaxies: Numerical Investigations of the Tidal Torque Theory**, 1979, G. Efstathiou, and B.J.T. Jones, *MNRAS*, **186**, 133.
- [R3*] **The Clustering of Galaxies and its Dependence upon Ω** , 1979, G. Efstathiou, *MNRAS*, **187**, 117.
- [R4*] **Self-Similar Gravitational Clustering**, 1979, G. Efstathiou, S.M. Fall and C. Hogan, *MNRAS*, **189**, 203.
- [R5] **The Rotation of Galaxies: The Contribution from Galaxy Merging**, 1979, B.J.T. Jones and G. Efstathiou, *MNRAS*, **189**, 27.
- [R6] **Formation and Rotation of Disc Galaxies with Haloes**, 1980, S.M. Fall and G. Efstathiou, *MNRAS*, **193**, 189.
- [R7*] **Angular Momentum and the Formation of Galaxies by Gravitational Instability**, 1980, G. Efstathiou and B.J.T. Jones, *Comments in Astrophys.*, **8**, 169.
- [R8] **Massive Neutrinos and the Large-Scale Structure of the Universe**, 1980, J.R. Bond, G. Efstathiou and J. Silk, *Phys. Rev. Lett.*, **45**, 1980.
- [R9*] **Spectroscopic Observations of Three Elliptical Galaxies**, 1980, G. Efstathiou, R.S. Ellis and D. Carter, *MNRAS*, **193**, 931.
- [R10*] **On the Clustering of Particles in an Expanding Universe**, 1981, G. Efstathiou and J.W. Eastwood, *MNRAS*, **194**, 503.
- [R11] **The Dynamics of the Giant Dumbell Galaxy IC2082**, 1981, D. Carter, G. Efstathiou, R.S. Ellis, I. Inglis and J. Godwin, *MNRAS*, **195**, 15p.
- [R12*] **Further Observations of the Elliptical Galaxy NGC5813**, 1982, G. Efstathiou, R.S. Ellis, and D. Carter, *MNRAS*, **201**, 975.
- [R13*] **The Stability and Masses of Disc Galaxies**, 1982, G. Efstathiou, G. Lake and J. Negroponte, *MNRAS*, **199**, 1069.
- [R14] **The Ultraviolet Spectra of the Nuclei of Spiral Galaxies I: NGC4594, 3031, 5194 and 4258**, 1982, R.S. Ellis, P.M. Gondhalekar and G. Efstathiou, *MNRAS*, **201**, 223.
- [R15] **A Complete Galaxy Redshift Sample I: The Peculiar Velocities between Galaxy Pairs and the Mean Mass Density of the Universe**, 1983, A.J. Bean, G. Efstathiou, R.S. Ellis, B.A. Peterson and T. Shanks, *MNRAS*, **205**, 605.
- [R16] **The Kinematic Properties of Faint Elliptical Galaxies**, 1983, R.L. Davies, G. Efstathiou, S.M. Fall, G. Illingworth and P.L. Schechter, *Ap. J.*, **266**, 41.
- [R17] **The Clustering of Galaxies in a Complete Redshift Survey**, 1983, T. Shanks, A.J. Bean, G. Efstathiou, R.S. Ellis, R. Fong and B.A. Peterson, *Ap. J.*, **274**, 529.
- [R18*] **Multivariate Analysis of Elliptical Galaxies**, 1984, G. Efstathiou and S.M. Fall, *MNRAS*, **204**, 453.
- [R19] **Cosmic Background Radiation Anisotropies in Universes Dominated by Non-Baryonic Dark Matter**, 1984, J.R. Bond and G. Efstathiou, *Ap. J.*, **285**, L45.
- [R20*] **Constraints on Decaying Particles from Virgo Infall**, 1985, G. Efstathiou, *MNRAS*, **213**, 29p.

²Publications marked with an asterisk are first author, or single author, papers.

- [R21*] **Numerical Techniques for Large Cosmological Simulations**, 1985, G. Efstathiou, M. Davis, C.S. Frenk and S.D.M. White, *Ap. J. Suppl. Ser.*, **57**, 241.
- [R22] **Kinematics and Dynamics of the Haloes of Supergiant Galaxies**, 1985, D. Carter, I. Inghis, R.S. Ellis, G. Efstathiou and J. Godwin, *MNRAS*, **212**, 471.
- [R23] **The Evolution of Large-Scale Structure in a Universe Dominated by Cold Dark Matter**, 1985, M. Davis, G. Efstathiou, C.S. Frenk and S.D.M. White, *Ap. J.*, **292**, 371.
- [R24] **Relative Velocities of Multiple Nucleus Galaxies**, 1985, R.M. Smith, G. Efstathiou, R.S. Ellis, C.S. Frenk and E.A. Valentijn, *MNRAS*, **216**, 71p.
- [R25] **Cluster-Cluster Clustering**, 1985, J. Barnes, A. Dekel, G. Efstathiou and C.S. Frenk *Ap. J.*, **245**, 368.
- [R26] **Cold Dark Matter, the Structure of Galactic Haloes and the Origin of the Hubble Sequence**, 1985, C.S. Frenk, S.D.M. White, G. Efstathiou and M. Davis, *Nature*, **317**, 595.
- [R27*] **Line-Strength Gradients in NGC 5813**, 1985, G. Efstathiou and J. Gorgas, *MNRAS*, **215**, 37p.
- [R28*] **Isocurvature Cold Dark Matter Fluctuations**, 1986, G. Efstathiou and J.R. Bond, *MNRAS*, **218**, 103.
- [R29*] **Microwave Background Fluctuations and Dark Matter**, 1986, G. Efstathiou and J.R. Bond, *Proc. R. Soc.*, **A320**, 858.
- [R30] **Analysis of a Complete Redshift Survey III: Methods and Catalogue**, 1986, B.A. Peterson, R.S. Ellis, G. Efstathiou, T. Shanks, A.J. Bean, R. Fong and Z. Zeng-Long, *MNRAS*, **221**, 233.
- [R31] **Clusters, Filaments, and Voids in a Universe Dominated by Cold Dark Matter**, 1987, S.D.M. White, C.S. Frenk, M. Davis and G. Efstathiou, *Ap. J.*, **313**, 505.
- [R32] **Angular Momentum from Tidal Torques** J. Barnes and G. Efstathiou, 1987, *Ap. J.*, **319**, 575.
- [R33*] **Microwave Anisotropy Constraints on Isocurvature Baryon Models**, 1987, G. Efstathiou and J.R. Bond, *MNRAS*, **227**, 33p.
- [R34] **Cosmic Fluctuation Spectra with Large-Scale Power**, 1987, J.M. Bardeen, J.R. Bond and G. Efstathiou, *Ap. J.*, **321**, 28.
- [R35] **The Statistics of Cosmic Background Radiation Fluctuations**, 1987, J.R. Bond and G. Efstathiou, *MNRAS*, **226**, 655.
- [R36] **The Galaxy Distribution in a Cold Dark Matter Universe**, 1987, S.D.M. White, M. Davis, G. Efstathiou and C.S. Frenk, *Nature*, **330**, 451.
- [R37] **Analysis of a Complete Redshift Survey II: The Field Galaxy Luminosity Function**, 1988, G. Efstathiou, R.S. Ellis and B.A. Peterson, *MNRAS*, **232**, 431.
- [R38] **The Formation of Dark Halos in a Universe Dominated by Cold Dark Matter**, 1988, C.S. Frenk, S.D.M. White, M. Davis and G. Efstathiou, *Ap. J.*, **327**, 507.
- [R39] **The Cross-Correlation of Abell Clusters with the Lick Galaxy Counts**, 1988, P.B. Lilje and G. Efstathiou, *MNRAS*, **231**, 635.
- [R40*] **High Redshift Quasars in the Cold Dark Matter Cosmogony**, 1988, G. Efstathiou and M.J. Rees, *MNRAS*, **230**, 5p.
- [R41] **A Study of Satellite Galaxies in the Rich Cluster A2029**, 1988, R.G. Bower, R.S. Ellis and G. Efstathiou, *MNRAS*, **234**, 725.

- [R42*] **Gravitational Clustering from Scale-Free Initial Conditions**, 1988, G. Efstathiou, C.S. Frenk, S.D.M. White and M. Davis, *MNRAS*, **235**, 715.
- [R43] **Extreme FeII Emission from an IRAS Quasar**, 1988, A. Lawrence, W. Saunders, M. Rowan-Robinson, J. Crawford, R.S., Ellis, C.S. Frenk, G. Efstathiou and N. Kaiser, *MNRAS*, **235**, 261.
- [R44] **Gravitationally Induced Velocity Fields in the Universe. I: Correlation Functions**, 1989, P.B. Lilje and G. Efstathiou *MNRAS*, **236**, 851.
- [R45] **Gravitational Lensing of Microwave Background Fluctuations**, 1989, S.M. Cole and G. Efstathiou, *MNRAS*, **239**, 195.
- [R46] **Galaxy Clusters and the Amplitude of Primordial Fluctuations** 1989, C.S. Frenk, S.D.M. White, G. Efstathiou and M. Davis, *Ap. J.*, **351**, 10.
- [R47] **The 60 μ m and Far-infrared Luminosity Function of IRAS Galaxies**, 1990, W. Saunders, M. Rowan-Robinson, A. Lawrence, G. Efstathiou, and N. Kaiser, R.S., Ellis and C.S. Frenk, *MNRAS*, **242**, 318.
- [R48] **Galaxy Correlations on Large Scales**, 1990, S.J. Maddox, G. Efstathiou, W.J. Sutherland and J. Loveday, *MNRAS*, **242**, 43p.
- [R49] **The APM Galaxy Survey I: APM Measurements and Star Galaxy Separation**, 1990, S.J. Maddox, W.J. Sutherland, G. Efstathiou and J. Loveday, *MNRAS*, **243**, 692.
- [R50] **Line-Strength Gradients in Early Type Galaxies**, 1990, J. Gorgas, G. Efstathiou and A. Aragon-Salamanca, *MNRAS*, **245**, 217.
- [R51] **The APM Galaxy Survey II: Photometric Corrections**, 1990, S.J. Maddox, G. Efstathiou and W.J. Sutherland, *MNRAS*, **246**, 433.
- [R52] **A Sparse-Sampled Redshift Survey of IRAS Galaxies: I The convergence of the IRAS dipole and the origin of our motion with respect to the microwave background**, 1990, M. Rowan-Robinson, A. Lawrence, W. Saunders, J. Crawford, R. Ellis, C.S. Frenk, I. Parry, X. Xiaoyang, J. Allington-Smith, G. Efstathiou and N. Kaiser, *MNRAS*, **247**, 1.
- [R53*] **Large-Scale Clustering of IRAS Galaxies**, 1990, G. Efstathiou, N. Kaiser, W. Saunders, A. Lawrence, M. Rowan-Robinson, R.S. Ellis and C.S. Frenk, *MNRAS*, **247**, 10p.
- [R54] **Galaxy Evolution at Low Redshift**, 1990, S.J. Maddox, W. Sutherland, G. Efstathiou, J. Loveday and B.A. Peterson, *MNRAS*, **247**, 1p.
- [R55*] **The Cosmological Constant and Cold Dark Matter**, 1990, G. Efstathiou, W.J. Sutherland and S.J. Maddox, *Nature*, **348**, 705.
- [R56] **Correlation Functions of Rich Clusters of Galaxies**, 1991, W.J. Sutherland and G. Efstathiou, *MNRAS*, **248**, 159.
- [R57] **The Density Field of the Local Universe**, 1991, W. Saunders, C.S. Frenk, M. Rowan-Robinson, G. Efstathiou, A. Lawrence, N. Kaiser, R.S. Ellis, J. Crawford, X.Y. Xia, and I. Parry, *Nature*, **349**, 32.
- [R58] **A high-redshift IRAS galaxy with huge luminosity - hidden quasar or protogalaxy?**, 1991, M. Rowan-Robinson, T. Broadhurst, A. Lawrence, R.G. McMahon, C.J. Lonsdale, S.J. Oliver, A.N. Taylor, P.B. Hacking, T. Conrow, W. Saunders, R.S. Ellis, G. Efstathiou and J.J. Condon, *Nature*, **351**, 719.
- [R59] **Cosmic Structure Constraints from a 1 $^\circ$ CMB Anisotropy Experiment**, 1991, J.R. Bond, G. Efstathiou, P.M. Lubin and P.R. Meinhold, *Phys. Rev. Lett.*, **66** 2179-2182.

- [R60] **Excursion Set Mass Functions for Hierarchical Gaussian Fluctuations**, 1991, J.R. Bond, S. Cole, G. Efstathiou and N. Kaiser, *Ap. J.*, **379**, 440.
- [R61] **The Large-Scale Distribution of IRAS Galaxies and the Predicted Peculiar Velocity Field**, 1991, N. Kaiser, G. Efstathiou, R. Ellis, C. Frenk, A. Lawrence, M. Rowan-Robinson and W. Saunders, *MNRAS*, **252**, 1.
- [R62*] **The Clustering of Faint Galaxies**, 1991, G. Efstathiou, G. Bernstein, N. Katz, J.A. Tyson and P. Guhathakurta, *Ap. J. Lett.*, **380**, L47.
- [R63] **The Formation of Cosmic Structure with a 17keV Neutrino**, 1991, J.R. Bond and G. Efstathiou, *Physics Lett. B.*, **265**, 245.
- [R64] **Spatial Correlations in a Redshift Survey of APM Clusters**, 1992, G.B. Dalton, G. Efstathiou, S.J. Maddox and W.J. Sutherland, *Ap. J. Lett.*, **390**, L1.
- [R65] **The Topology of the QDOT IRAS Redshift Survey**, 1992, B. Moore, C.S. Weinberg, D.H., W. Saunders, A. Lawrence, R.S. Ellis, N. Kaiser, G. Efstathiou & M. Rowan-Robinson, *MNRAS*, **256**, 477.
- [R66*] **Suppressing the Formation of Dwarf Galaxies via Photoionization**, 1992, G. Efstathiou, *MNRAS*, **256**, 43p.
- [R67] **The Luminosity Function and Mean Space Density of Galaxies in the Stromlo-APM Redshift Survey**, 1992, J. Loveday, B.A. Peterson, G. Efstathiou & S.J. Maddox, *Ap. J.*, **390**, 338.
- [R68] **The End of Cold Dark Matter**, 1992, M. Davis, G. Efstathiou, C.S. Frenk & S.D.M. White, *Nature*, **356**, 489.
- [R69*] **The Correlation Function of Rich Clusters of Galaxies: A Comparison of APM and Abell Clusters**, 1992, G. Efstathiou, G.B. Dalton, W.J. Sutherland & S.J. Maddox, *MNRAS*, **257**, 128.
- [R70*] **COBE Background Radiation Anisotropies and Large-Scale Structure in the Universe**, 1992, G. Efstathiou, J.R. Bond & S.D.M. White, *MNRAS*, **258**, 1p.
- [R71] **Large-Scale Structure in the Universe: Results from the Stromlo-APM Redshift Survey**, 1992, J. Loveday, G. Efstathiou, B.A. Peterson & S.J. Maddox, *ApJ*, **400**, L43.
- [R72] **Optical, infrared, radio and polarization imaging of the high redshift galaxy IRAS F10214+4724**, 1993, A. Lawrence, M. Rowan-Robinson, S. Oliver, A. Taylor, R.G. McMahon, T. Broadhurst, S.M. Scarrott, C.D. Rolph, P.W. Draper, R.S. Ellis, C. Tadhunter, J.J. Condon, C.J. Lonsdale, P. Hacking, T. Conrow, G. Efstathiou & W. Saunders, *MNRAS*, **260**, 28.
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