**Roger David Blandford**

**Professional Preparation**

Cambridge University England, Theoretical Physics, BA, 1970

Cambridge University England Applied Math. MA, 1973, PhD, 1973

Charles Kingsley Bye Fellow Magdalene Coll., Cambridge , 1972-3

Res. Fellow St. John’s Coll. Cambridge England 1973-6

IAS Princeton 1974-5

UC Berkeley 1975

**Appointments**

Pehong and Adele Chen Director, Kavli Institute for Particle Astrophysics and Cosmology, Stanford 2003-2013

Luke Blossom Professor in the School of Humanities and Sciences 2005-

Professor at the Stanford Linear Accelerator Center 2003-

1992 - 1995 Executive Officer for Astronomy, Caltech

1989 - 2004 Richard Chace Tolman Professor Theoretical Astrophysics, Caltech

1979 - 1989 Professor, Caltech

1976 - 1979 Assistant Professor, Caltech

**Publications**

Blandford, R. & Narayan, R. 1986 Fermat's principle, caustics, and the classification of gravitational lens images ApJ 310 568

Goodman, J., Romani, R., Blandford, R. & Narayan, R. 1987 The effects of caustics on scintillating radio sources MNRAS229 73

Suyu, S., Marshall, P., Hobson, M. & Blandford R. 2006 “A Bayesian analysis of regularized source inversions in gravitational lensing” MNRAS 371 983

Suyu, S. et al. 2014 “Cosmology from gravitational lens time delays and Planck data” ApJ 788 L35

von der Linden, A. et al. 2014 “Weighing the Giants - I. Weak-lensing masses for 51 massive galaxy clusters: project overview, data analysis methods and cluster images” MNRAS 439 2

Blandford, R. & Teukolsky, S. 1976 “Arrival time analysis for a pulsar in a binary system” ApJ 205 580

Blandford, R. & McKee, C. 1976 “Fluid dynamics of relativistic blast waves” 1976 Phys. Fluids 19 1130

Blandford, R. & Znajek, R. 1977 “Electromagnetic Extraction of Energy from Kerr Black Holes” MNRAS 179 433

Blandford, R. & Ostriker, J. 1978 “Particle Acceleration by Astrophysical Shocks” ApJ 221 L29

Blandford, R. & Konigl, A. 1979 “Relativistic jets as compact radio sources “ApJ 232 34

**Synergistic Activities**

Instigator and co-organiser of First NSF-ITP Workshop for High School Physics Teachers (2001)

Annual Reviews Astronomy and Astrophysics Editor (2002-4), Managing Editor (2005-10)

Chair Astronomy and Astrophysics Decadal Survey (2010)

Chair 26th Solvay Conference on Physics; “Astrophysics and Cosmology” (2014)

Thorne, K. & Blandford, R. “Modern Classical Physics” Princeton University Press in press

**Principal collaborators**

M.Amin (Rice), S. Allen (Stanford), R. Anantua (Stanford), D. Applegate (Bonn), M. Auger (Cambridge), K. Bechtol (Wisconsin), P. Burchat (Stanford), J. Arons (UC Berkeley), W. Atwood (UC Santa Cruz), L. Baldini (Stanford), M. Barnabe (Copenhagen), M. Bietenholz (Krugersdorp, RSA), R. Buehler (DESY), C. Cheung (NRL), T. Collett (Portsmouth), W. Craig (LLNL), C. Fassnacht (UC Davis), J. Dai (Maryland), S. Digel (Stanford), E. Charles (Stanford), W. East (Stanford), P. Eggleton (LLNL), Z. Greene (Columbia), F. Harrison (Caltech), M. Hayashida (Stanford), Y. Hezaveh (Stanford), S. Hilbert (Heidelberg), A. Lobanov (Bonn), C. Max (UC Santa Cruz), J. McKinney (Maryland), P. Michelson (Stanford), K. Nalewajko (Warsaw), S. Odell (Marshall), M. Oguri (KIPMU), N. Ota (KIPMU), A. Readhead (Caltech), R. Rudy (UC Santa Cruz), J. Scargle (Ames), T. Schrabback (Bonn), M. Sikora (Warsaw), P. Simeon (Stanford), L. Strigari(Texas A&M), S. Suyu (MPA), A. Tchekhovskoy (UC Berkeley), T. Treu (UCLA), K. Thorne (Caltech), M. Weisskopf (Marshall), Y. Yuan (Stanford), J. Zrake (Stanford)[48]

**Graduate Advisor:** M. Rees

**Postdoctoral Sponsor:** J. Bahcall

**Thesis Advisor:** M. Amin (Rice), J. Dai (Maryland), C. Zheng (Google), E. Morganson (CFA), P. Simeon (Stanford), Y.Yuan (Stanford), R. Anantua (Stanford), W. Morningstar, (Stanford). [8 graduate students, 12 postdoctoral scholars sponsored]