

Jean-Paul KNEIB

Born July 28, 1967 in Sisteron, France
French — Married - 4 children

Work Address

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Next Position

September 2004: Research scientist at the Astrophysical Laboratory of Marseille (Observatoire Astronomique Marseille Provence).

Current Position

August 2002 - July 2004: Visiting Professor at the University of Caltech in Astronomy.
January 96 - August 2004: Research scientist at the Astrophysical Laboratory (Obs. Midi-Pyrenees).
Research Topics: Gravitational Lensing, Galaxy evolution, Cluster of Galaxies, Cosmology.

Education

September 90 - February 93: PhD thesis of the University Paul Sabatier (Toulouse), at Observatoire Midi-Pyrénées — *Title*: “Multiple Arcs and arclets as a diagnostic of the mass distribution in clusters of galaxies”. — *PhD Supervisor*: Bernard Fort/Yannick Mellier.
89-90: D.E.A (Master) of Astrophysics, Geophysics & Space Technics at CESR, Toulouse
87-90: Engineer degree: Sup'Aéro — Aerodynamic & Space Technics.

Research Experience

July 2003: visiting Astronomer at the W.M. Keck Observatory in Waimea, Hawaii (USA) —
November 2000: visiting Astronomer at the European Southern Observatory in Santiago (Chile) —
June 1999: visiting Professor at the Max-Planck institut for Astrophysics, Garching (Germany) —
Collaborator: Peter Schneider.
August 94 - December 95: Post-Doc at the Institute of Astronomy, Cambridge, UK. — *Topics*: Gravitational Lensing, Mass distribution and Galaxy Evolution. — *Supervisor*: Richard Ellis.
March 93 - July 94: Fellowship at the Astronomy department at ESO/La Silla, Chili. — *Supervisor*: Jorge Melnick.
April - August 90: research work at CCAR (Colorado Center for Astrodynamics Research; Boulder, Colorado, USA): “Surface Forces Influence on the Orbit of an Earth Observation Satellite like SPOT”.
July - September 89: training as Research Ingeneer at the “Low Temperature Laboratory”, Helsinki, Finland.

Scientific Knowledge

- **Languages**: French, English, Spanish good knowlege, German basics.
- **Computing skills**: Extended knowledge of Unix/Linux (systems and administration); Fortran, C, PERL, HTML, LaTeX, Astronomy software: IRAF, MIDAS, GILDAS, GISSEL.
- **Observing Skills**: Regular observer of optical/IR telescopes for both imaging and spectroscopy at CFHT/HST/ESO/Keck. Strong interest in MIR/Submm/mm/radio/X-ray observations.
- **Data Reduction Skills**: Extensive experience with optical data, growing knowlege on IR data, basics of interferometric and bolometer millimeter data.

Teaching, Training

- Course: "Introduction to Statistical Physics and Astrophysical Applications" - 20h of lectures, 15h of exercises (from 1998).
- PhD Thesis students: O. Czoske (PhD completed in 2002), G. Golse (PhD completed in 2002), C. Faure (PhD completed in Oct. 2003, co-supervised with D. Alloin at ESO-Santiago), S. Bardeau (PhD started in Oct. 2001), M. Limousin (PhD started in Nov. 2001).
J. Richard (PhD started in Oct. 2002), P. Hudelot (PhD started in Oct. 2002).
- Undergraduate Students: starting in 1997, I usually supervise every year: 1 student in astrophysics and 1 student in computer-science (developing web interface or user-friendly interface) for period of ~3 months.

Conference Organisation

- Member of the LOC of JENAM99 held in Toulouse Sept 7-11, 1999.
- Member of the SOC of the Moriond Conference on "Gravitational Lensing" held in Les Arcs March 11-18, 2000.
- Member of the LOC of the 9th UN/ESA Workshop on Basic Space Science, to be held held in Toulouse June 27-30, 2000.
- Member of the SOC of the workshop: "SZ-Toulouse", Toulouse, 29-30 June 2000.
- Member of the SOC of the workshop: "THE SHAPES OF GALAXIES AND THEIR HALOS", Yale University, New Haven, USA, 28-30, May 2001.
- Member of the SOC of the workshop: "COSMIC SHEAR", Institute of Astronomy, Cambridge, 26-28, July 2001.
- Co-Organiser of the international workshop: "Gravitational Lensing a Unique Tool for Cosmology", Aussois, France, 5-11 Janvier 2003.

Research Administration

- Member of the Astronomy Working Group of the European Space Agency (for the period 2002-2004).
- Member of the Programme Committee of IRAM (for the period 1999-2002).
- Member of the Scientific Comitee of Observatoire Midi-Pyrénées, and member of the Astrophysics Laboratory Committee.
- Scientific head of the Astrophysics Laboratory Computer System. (01/2000–8/2002)
- Former Webmaster of the Astrophysics Laboratory (01/1997-12/1999) (<http://webast.ast.obs-mip.fr/>).

Research Project and Grant

- French Coordinator of a collaboration grant *CNRS/Royal-Society* between Toulouse and Cambridge (UK): "Cluster of Galaxies as Gravitational Telescopes" (1998-1999).
- Coordinator of the Toulouse node of LENSNET: the Gravitational Lensing European Research and Training Network (1999-2002) (<http://www.ast.cam.ac.uk/IOA/lensnet/>).
- French Coordinator of a collaboration grant *Alliance # 00161XM* (MAE/British-Council) between Toulouse and Durham (UK): "Study of the first sample of cluster-lenses" (2000-2002).
- French Coordinator of a collaboration grant *CNRS/Conycit # 8730* between Toulouse and Santiago (Chili): "Gravitational Lensing with the VLT: Dark Matter distribution and cosmological Constraints" (2000-2001).
- Coordinator of a french ATI research grant: "*XMM-Newton* Observations of Cluster-Lenses: New cosmological constraints" (2000-2001).
- French Coordinator of a collaboration grant *ECOS-Sud* (ECOS/Conycit) between Toulouse and Santiago (Chili): "Sharp and Deep Observations with the ESO/VLTs" (2001-2003).
- HST grant of a cycle 13 GO programme to study the mass distribution of MACS cluster of galaxies (~ 40k\$).

Prize

- June 2004 Prize of the French Astronomy and Astrophysical Society (SF2A).

Press Releases

- ESO/CNRS, 1 Mars 2004: “VLT Smashes the Record of the Farthest Known Galaxy Redshift 10 Galaxy discovered at the Edge of the Dark Ages”

[<http://www.eso.org/outreach/press-rel/pr-2004/pr-04-04.html>]

- ST-ECF/STSci/Keck/Caltech, 16 Février 2004: “Hubble and Keck find farthest known galaxy in the Universe”

[<http://www.sci.esa.int/science-e/www/object/index.cfm?fobjectid=34658>]

- ST-ECF/Caltech/CNRS, 17 July 2003: “Hubble tracks down a galaxy cluster’s dark matter”

[<http://www.sci.esa.int/science-e/www/object/index.cfm?fobjectid=33507>]

- CNRS, 11 December 2002, “Deux galaxies lointaines passées à la loupe” [<http://www.cnrs.fr/cw/fr/pres/dync>]

- University of Hawaii, 6 March 2002: “Galaxies from the Dark Ages”

[<http://www.ifa.hawaii.edu/cowie/z6/z6.html>]

- ST-ECF/Stsci/Caltech, 5 October 2001: “Gravitational lens helps Hubble and Keck discover galaxy building block”

[<http://hubble.esa.int/hubble/news/index.cfm?oid=28504>]

- ST-ECF, 6 September 2000: “Unveiling the nature of a dusty galaxy”

[<http://hubble.esa.int/hubble/news/index.cfm?oid=24556>]

- ESO, 13 April 2000: “A Deep Look into the Universal Hall of Mirrors”

<http://www.eso.org/outreach/press-rel/pr-2000/pr-10-00.html>

PUBLICATIONS IN REFEREE JOURNALS

1. Y. Mellier, B. Fort, **J.P. Kneib** “Dark Matter Distribution in MS 213 7-23”, 1993, ApJ 407, 33.
2. **J.P. Kneib**, Y. Mellier, B. Fort, G. Mathez “The Dark Matter Distribution in Distant Cluster-Lenses: Modelling A370” 1993, A.&A. 273, 367.
3. H. Bonnet, P. Couturier, B. Fort, **J.P. Kneib**, Y. Mellier & G. Soucail, “Detection of Weak Lensing by a Massive Dark Halo in Q2345+007” 1993, A.&A. 280, L7.
4. **J.P. Kneib**, Mathez, G., Fort, B., Mellier, Y., Soucail, G., & Longaretti, P.Y. “Redshift Distance of Gravitational Arclets up to $B_J = 27$, Behind Clusters of Galaxies”, 1994, A.&A. 286, 701.
5. **J.P. Kneib**, J. Melnick, Gopal-Krishna “The Cl2236-04 Lens Cluster” 1994, A.&A. 290, L25.
6. J.P. Beaulieu, R. Ferlet, P. Grison, A. Vidal-Madjar, **J.P. Kneib**, E. Maurice, L. Prévot, C. Gry, J. Guibert, O. Moreau, F. Tajhmady, E. Auburg, P. Bareyre, C. Coutures, M. Gros, B. Laurent, M. Lachièze-Rey, E. Lesquoy, C. Magneville, A. Milsztajn, L. Moscoso, F. Queinnee, C. Renault, J. Rich, M. Spiro, L. Vigroux, S. Zylberajch, R. Ansari, F. Cavallier and M. Moniez “Spectroscopic studies of the two EROS candidate microlensed stars”, 1995, A.&A. 299, 168.
7. **J.P. Kneib**, Y. Mellier, R. Pelló, J. Miralda-Escudé J.-F. Le Borgne, H. Böhringer, J.-P. Picat “Dynamics of Abell 2218 from optical and near-IR imagery of arc(let)s and ROSAT/HRI X-ray map”, 1995, A&A 303, 27–40.
8. **J.P. Kneib**, R.S. Ellis, I. Smail, W.J. Couch & R.M. Sharples, “Hubble Space Telescope Observations of the Rich Cluster of Galaxies Abell 2218”, 1996, ApJ 471, 643.
9. I. Smail, A. Dressler, R.S. Ellis, **J.P. Kneib**, W.J. Couch, R.M. Sharples, A. Oemler & H.R. Butcher, “HST Observations of Giant Arcs: High Resolution Imaging of Distant Field Galaxies”, 1996, ApJ 469, 508.
10. S.W. Allen, A.C. Fabian & **J.P. Kneib** “A combined X-ray and gravitational lensing study of the massive cooling-flow cluster PKS0745”, 1996, MNRAS 279, 615.
11. M. Pierre, J.-F. Leborgne, G. Soucail, **J.P. Kneib** “X-ray analysis and matter distribution in the lens-cluster Abell 2390”, 1996, A&A 311, 413.
12. B. Fort, Y. Mellier, M. Dantel-Fort, H. Bonnet, **J.P. Kneib**, “Detection of Weak Lensing in the Fields of Luminous Radiosources” 1996, A&A 310, 705.
13. C. Seitz, **J.P. Kneib**, S. Seitz, P. Schneider “The Mass Distribution of Cl0939+4713 obtained from a ‘Weak’ Lensing Analysis of a WFPC2 image” 1996, A&A 314, 707.
14. Ebbels, T.M.D, Leborgne, J.F, Pello, R., Ellis, R.S., **Kneib J.-P.**, Smail, I.R., Sanahuja, B., “Identification of a Lensed $z=2.515$ Star-Forming Galaxy”, 1996, MNRAS 281, L75.
15. Natarajan, P., **Kneib J.-P.**, “Probing the dynamics of cluster-lenses”, 1996, MNRAS 283, 1031.
16. Natarajan, P., **Kneib J.-P.**, “Lensing by galaxy halos in clusters of galaxies” 1997, MNRAS 287, 833.
17. Campusano, L., **Kneib, J.-P.**, Hardy, E “Gravitational lensing in low-redshift clusters of galaxies- the arc-like object in Abell 3408 and its lensing interpretation”, 1998, ApJL, 496, 79

18. Ebbels, T.M.D, Ellis, R.S., **Kneib, J.-P.**, Le Borgne, J.F, Pello, R., Smail, I.R., Sanahuja, B. "Spectroscopic Confirmation of Redshifts Predicted by Gravitational Lensing", 1998, MNRAS, 295, 75
19. Frayer, D.T., Ivison, R.J., Scoville, N.J., Yun, M., Evans, A.S., Smail, I.R., Blain, A.W., **Kneib, J.-P.**, "Molecular Gas in the $z=2.8$ Submillimeter Galaxy SMM 02399-0136", 1998, ApJL, 506, 7
20. Hattori, M., Matuzawa, H., Morikawa, K., **Kneib, J.-P.**, Yamashita, K., Wanatabe, K., Boehringer, H., Tsuru, T.G. "Discovery of X-ray emission from the distant lensing cluster of galaxies CL2236-04 at $z=0.552$ ", 1998, ApJ, 503, 593
21. Ivison, R., Smail, I., Leborgne, J.-F., Blain, A.W., **Kneib, J.-P.**, Bezecourt, J., Kerr, T.H., Davies, J.K "A hyperluminous galaxy at $z=2.8$ found in a deep submillimetre survey", 1998, MNRAS, 298, 583
22. **Kneib, J.-P.**, Alloin, D., Mellier, Y., Guilloteau, S., Barvainis, R., Antonucci, R. "Modelling the Cloverleaf- Contribution of a Galaxy Cluster at $z 1.7$ ", 1998, A&A, 329, 827
23. **Kneib, J.-P.**, Alloin, D., Pello, R., "Unveiling the nature of the Cloverleaf lens-system- HST/NICMOS-2 observations", 1998, A&A, 339, 65
24. Natarajan, P., **Kneib, J.-P.**, Smail, I.R., Ellis, R.S "The Mass/Light Ratio of Early-Type Galaxies- Constraints from Gravitational Lensing in the Rich Cluster AC114", 1998, ApJ, 499, 600
25. Smail, I., Ivison, R., Blain, A., **Kneib, J.-P.**, "The Faint Sub-millimeter Galaxy Population- Hubble Space Telescope Morphologies and Colors", 1998, ApJL, 507, 21
26. Altieri, B., Metcalfe, L., **Kneib, J.-P.**, Mcbreen, B., Aussel, H., Biviano, A., Delaney, M., Elbaz, D., Leech, K., Lemonon, L., Okumura, K., Pello, R., Schulz, B. "An ultra-deep ISOCAM observation through a cluster-lens", 1999, A&A, 343, L65
27. Barger, A., Cowie, L., Smail, I., Ivison, R., Blain, A., **Kneib, J.-P.**, "Redshift distribution of the faint submillimeter galaxy population", 1999, AJ, 117, 2656
28. Bezecourt, J, **Kneib, J.-P.**, Soucail, G., Ebbels, T., "Lensed galaxies in Abell 370- I. modeling the number counts and redshift distribution of background sources", 1999, A&A, 347, 21
29. Bezecourt, J., Soucail, G., Ellis, R.S., **Kneib, J.-P.**, "Lensed galaxies in Abell 370 II. The ultraviolet properties of arclets and the star formation rate at high redshift", 1999, A&A, 351, 433
30. Blain, A., **Kneib, J.-P.**, Ivison, R., Smail, I., "Deep Counts of Submillimeter Galaxies", 1999, ApJL, 512, 87
31. Blain, A., Smail, I., Ivison, R., **Kneib, J.-P.**, "The history of star formation in dusty galaxies", 1999, MNRAS, 302, 632
32. Blain, A.W., Jameson, A., Smail, I., Longair, M., **Kneib, J.-P.**, Ivison, R. "Dust obscured star formation and AGN fueling in hierarchical models of galaxy evolution", 1999, MNRAS, 309, 715
33. Edge, A.C., Ivison, R.J., Smail, I.R., Blain, A.W., **Kneib, J.-P.**, "The Detection of Dust in the Central Galaxies of Distant Cooling-Flow Clusters", 1999, MNRAS, 306, 599

34. Frayer, D.T., Ivison, R.J., Scoville, N.Z., Evans, A.S., Yun, M.S., Smail, I.R., Barger, A.J., Blain, A.W., **Kneib, J.-P.**, “Molecular Gas in the $z=2.565$ Submillimeter Galaxy SMM J14011+0252”, 1999, *ApJL*, 514, 13
35. Hattori, H., **Kneib, J.-P.**, Makino, N. “Gravitational Lensing in Clusters of Galaxies”, 1999, *Progress of Theoretical Physics Supplement*, 133, 1
36. Molikawa, K., Hattori, M., **Kneib, J.-P.**, Yamashita, K., “The giant luminous arc Statistics. II. spherical lens models based on ROSAT HRI data”, 1999, *A&A*, 351, 413
37. Pello, R., **Kneib, J.-P.**, Leborgne, J.F., Bezecourt, J., Ebbels, T.M., Tijera, I., Bruzual, G., Miralles, J.M., Smail, I., Soucail, G., Bridges, T.J. “Two multiple-imaged $z=4.05$ galaxies in the cluster-lens Abell 2390”, 1999, *A&A*, 346, 359
38. Smail, I.R., Ivison, R.J., **Kneib, J.-P.**, Cowie, L.L., Blain, A.W., Barger, A.J., Owen, F.N., Morrison, G. “The Discovery of ERO Counterparts to Faint Submm Galaxies”, 1999, *MNRAS*, 308, 1061.
39. Smail, I.R., Morrison, G., Gray, M., Owen, F.N., Ivison, R.J., **Kneib, J.-P.**, Ellis, R.S. “HST Near Infrared and Optical imaging of Faint Radio Sources in the distant cluster Cl0939+4713”, 1999, *ApJ*, 525, 609.
40. Soucail, G., **Kneib, J.-P.**, Bezecourt, J., Metcalfe, L., Altieri, B., Leborgne, J.-F. “A Ring Galaxy at $z=1$ lensed by the cluster Abell 370”, 1999, *A&A*, 343, L70.
41. Ivison, R.J., Smail, I., Barger, A., **Kneib, J.-P.**, Blain, A., Owen, F.n, Kerr, T.H., Cowie, L., “The diversity of submillimetre-selected galaxies”, 2000, *MNRAS*, 315, 209.
42. Smail, I., Ivison, R., Owen, F., Blain, A.W., **Kneib, J.-P.** “Radio Constraints on the Identifications and Redshifts of Submm Galaxies”, 2000, *ApJL*, 528, 612.
43. Yamada, T., Yamazaki, S., Hattori, M., Soucail, G., **Kneib, J.-P.**, “Emission-Line Properties of MG2016+112: A Luminous Obscured Quasar at High Redshift”, 2001, *A&A*, 367, 51
44. Fabian, A.C., Smail, I., Iwasawa, K., Allen, S.W., Blain, A.W., Crawford, C., Ettori, S., Ivison, R., Johnstone, R.M., **Kneib, J.-P.**, Wilman, R.J., “Testing the connection between the X-ray and submillimetre backgrounds using Chandra”, 2000, *MNRAS*, 315, L8.
45. Courbin, F., Lidman, C., Meylan, G., **Kneib, J.-P.**, Magain, P. “Exploring the gravitationally lensed system HE 1104-1805: near-IR spectroscopy”, 2000, *A&A*, 360, 853.
46. Cypriano, E.S., Sodr, L.JR., Campusano, L.E., **Kneib, J.-P.**, Giovanelli, R., Haynes, M.P., Dale, D.A., Hardy, E., “Gravitational Lensing by Nearby Clusters of Galaxies”, 2000, *AJ*, 121, 10
47. **Kneib, J.-P.**, Cohen, J.G., Hjorth, J. “RXJ0911 05: A Massive Cluster Lens at $z=0.769$ ”, 2000, *ApJL*, 544, 35.
48. Soucail, G., **Kneib, J.-P.**, Jaunsen, A.O., Hjorth, J., Hattori, M., Yamada, T. “Spectroscopic confirmation of a lensing cluster at $z=1$ in the field of the gravitational lens MG2016 112 ”, 2000, *A&A*, 367, 741
49. Lidman, C., Courbin, F., **Kneib, J.-P.**, Golse, G., Castander, F., Soucail, G., “Exploring the gravitationally lensed system HE 1104-1805: VLT spectroscopy of the lens at $z=0.729$ ”, 2000, *A&A*, 364, 62.

50. Czoske, O., **Kneib, J.-P.**, Soucail, G., Bridges, T., Mellier, Y., Cuillandre, J.-C. “A Wide-Field Spectroscopic Survey of the Cluster of Galaxies Cl0024+1654: I. The Catalogue”, 2001, *A&A*, 372, 391
51. Cowie, L., Barger, A., Bautz, M., Capak, P., Crawford, C., Fabian, A., Hu, E., Iwamuro, F., **Kneib, J.-P.**, Maihara, T., & Motohara, K., “Detecting high redshift evolved galaxies as the hosts of optically faint hard X-ray sources”, 2001, *ApJL*, 551, 9
52. Smith, G.P., **Kneib, J.-P.**, Ebeling, H., Czoske, O., Smail, I., “An HST Lensing Survey of X-Ray Luminous Galaxy Clusters: I. A383”, 2001, *ApJ*, 552, 493
53. Campusano, L., Pelló, R., **Kneib, J.-P.**, Le Borgne, J.-F., Fort, B., Ellis, R., Mellier, Y., Smail, I., “VLT Spectroscopy of Lensed Galaxies in AC114”, 2001, *A&A*, 378, 394
54. Ivison, R.J., Smail, I., Frayer, D.T., **Kneib, J.-P.**, Blain, A.W. “Locating the Starburst in the SCUBA Galaxy SMM J14011+0252”, 2001, *ApJL*, 561, 45
55. Smith, G.P., Treu, T., Ellis, R., Smail, I., **Kneib, J.-P.**, Frye, B., “Near-infrared Spectroscopy and HST Imaging of a Dusty Starburst ERO”, 2001, *ApJ*, 562, 635
56. Ellis, R.S., Santos, M., **Kneib, J.-P.**, Kuijken, K., “A Faint Star-Forming System Viewed Through the Lensing Cluster Abell 2218: First Light at $z=5.6?$ ”, 2001, *ApJL*, 560, 119.
57. Oshima, T., Mitsuda, K., Fujimoto, R., Iyomoto, N., Futamoto, K., Hattori, M., Ota, N., Mori, K., Ikebe, Y., Miralles, J. M., **Kneib, J.-P.** “Detection of an Iron Emission Feature from the Lensed Broad Absorption Line QSO H1413+117 at $z = 2.56$ ”, 2001, *ApJL*, 563, 103
58. Smith, G.P., Smail, I., **Kneib, J.-P.**, Czoske, O., Ebeling, H., Edge, A.C., Pelló, R., Ivison, R.J., Packham, C., Leborgne, J.-F., “A HST Lensing survey of X-ray Luminous Galaxy Clusters: II. A Search for Gravitationally Lensed EROs”, 2002, *MNRAS* 330, 1
59. Balogh, M., Smail, I., Bower, R., Ziegler, B., Smith, G., Davies, R., Gaztelu, A., **Kneib, J.-P.**, Ebeling, H. “Distinguishing Local and Global Influences on Galaxy Morphology: An HST Comparison of High and Low X-ray Luminosity Clusters”, 2002, *ApJ*, 566, 123
60. Smail, I., Ivison, R., Blain, A., **Kneib, J.-P.**, “The Nature of Faint Submillimetre-selected Galaxies” 2002, *MNRAS*, 331, 495.
61. Möller, O., Natarajan, P., **Kneib, J.-P.**, Blain, A., “Constraints on the mass distribution in groups of galaxies from gravitational lensing”, 2002, *MNRAS*, 573, 562.
62. Golse, G., **Kneib, J.-P.**, Soucail, G. “Constraining Cosmological Parameters using Strong Lensing”, 2002, *A&A*, 387, 788.
63. Czoske, O., Moore, B., **Kneib, J.-P.**, Soucail, G. “A wide-field spectroscopic survey of the cluster of galaxies Cl0024+1654. II. A high-speed collision?”, 2002, *A&A* 386, 31.
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74. Natarajan, P., A. Loeb, **Kneib, J.-P.** and I. Smail 2002. Constraints on the Collisional Nature of the Dark Matter from Gravitational Lensing in the Cluster A2218. ApJL, 580, 17.
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77. Blain, A.W., Smail, I., Ivison, R., **Kneib, J.-P.**, 2002, "Submillimeter Galaxies", Phys.Rept. 369, 111-176.
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