

## Curriculum Vitæ

Bertrand Goldman

Born the 24th of February, 1971

Department of Astronomy

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## Postdoc in Astrophysics

- 2001 '03 Postdoc at New Mexico State University with Mark Marley  
NASA/Ames
- 1994 '97 Ph.D. in Astrophysics, D.A.P.N.I.A./S.P.P., Saclay  
+98 '01 U.Paris VI, on the Wide Field Proper Motion Survey for  
Brown and White Dwarfs in the Galactic Halo, directed by  
É.Aubourg C.É.A.'s Fellowship
- 1997 '98 National Cooperation Service: Collaboration U.Chile E.S.O.  
D.A.P.N.I.A., in Santiago de Chile, on the Search for White  
Dwarfs in the Solar Neighbourhood, with Pr. M. T. Ruiz,  
U.Chile
- 1990 '95 École Normale Supérieure É.N.S. , Paris:  
1993 '94 Proctor Fellowship at Princeton University, U.S.A.,  
Department of History of Sciences, on Medieval Latin  
Physics, supervised by Pr. Mahoney, Princeton University,  
and Pr. Claggett, Institute for Advanced Studies, Princeton
- 1992 '93 D.É.A. of Theoretical Physics, É.N.S. U.Paris VI, Thesis at  
L.P.N.H.E., Paris on LEP II  $\pi\pi$  simulations, directed by  
F.Kapusta, CNRS
- 1992 D.É.A. Master in Epistemology and History of Science,  
U.Paris VII Thesis on the Science of Weights in the XIIIth  
Century in the Latin World, directed by Pr.Rashed
- 1990 '92 Licence and Maîtrise de Physique, U.Paris VI

## ***Refereed publications***

1. *Bulge Microlensing Optical Depth from EROS 2 observations*, Afonso et al, 2003, accepted by *A&A*
2. *Limits on Galactic dark matter with 5 years of EROS SMC data*, Afonso et al, 2003, *A&A*, **400** 951–956
3. *A Mass for the Extrasolar Planet Gliese 876b Determined from HST Fine Guidance Sensor 3 Astrometry and High Precision Radial Velocities*, Benedict et al, 2002, *ApJ* **581** L115
4. *Observation of periodic variable stars towards the Galactic spiral arms by EROS II*, Derue et al, 2002, *A&A* **389** 149
5. *EROS 2 proper motion survey: Constraints on the halo white dwarfs*, Goldman et al, 2002, *A&A* **389** L69
6. *Blue irregular variable stars in the Small Magellanic Cloud from EROS2: Herbig Ae/Be or classical Be stars?*, Beaulieu et al, 2001, *A&A* **380** 168
7. *Photometric constraints on microlens spectroscopy of EROS BLG 2000 5*, Afonso et al, 2001, *A&A* **378** 1014
8. *Observation of microlensing toward the galactic spiral arms. EROS II 3 year survey*, Derue et al, 2001, *A&A* **373** 126
9. *Type Ia supernova rate at  $z \sim 0.1$* , Hardin et al, 2000, *A&A* **362** 419
10. *An effective temperature scale for Late M and L dwarfs, from Resonance Absorption Lines of Cs I and Rb I*, Basri et al, 2000, *ApJ* **538** 363
11. *Combined Analysis of the Binary Lens Caustic crossing Event MACHO 98 SMC 1*, Afonso et al, 2000, *ApJ* **532** 340
12. *Not enough stellar mass Machos in the Galactic halo*, Lasserre et al, *A&A*, 2000 **355** L39
13. *Spectroscopic Classification of ultracool dwarfs*, Martín, Delfosse, Goldman et al, 1999, *AJ* **118** 2466
14. *EROS 2 proper motion survey: A brown dwarf and an L dwarf companion to LHS102*, Goldman et al, 1999, *A&A* **351** L5–9
15. *Observation of microlensing towards the galactic spiral arms. EROS II. 2 year survey*, Derue et al, 1999, *A&A* **351** 87
16. *A slope variation in the period luminosity relation for short period SMC Cepheids*, Bauer et al, 1999, *A&A* **348** 175
17. *EROS and MACHO Combined Limits on Planetary Mass Dark Matter in the Galactic Halo*, Afonso et al, 1998, *ApJ* **499** L9
18. *Microlensing towards the Small Magellanic Cloud EROS 2 two year analysis*, Afonso et al, 1999, *A&A* **344** L63
19. *AGAPEROS: Searches for microlensing in the LMC with Pixel Method*, Melchior et al, Part I, 1999, *A&AS* **134** 377, II, 1998, *A&A* **339** 658
20. *EROS 2 intensive observation of the caustic crossing of microlensing event MACHO SMC 98 1*, Afonso et al, 1998, *A&A* **337** L17
21. *Microlensing towards the SMC. Eros II first year survey*, Palanque Delabrouille et al, 1998, *A&A* **332** L1

22. *The microlensing searches for Galactic dark matter*, B. Goldman, 1998, *Physics Reports* **307** 107–115
23. *Observational Limits on Machos in the Galactic Halo*, Renault et al, 1997, *A&A* **324** L69

### ***Press release***

*Stormy Weather on the Coolest Brown Dwarfs*, Doyon et al, 2002, *AAS 200*, Albuquerque, NM

### ***Talks given***

1. 2002 December Texas in Florence, Italy poster
2. 2002 June *EROS 2 proper motion survey*, AAS #200 poster
3. 2002 June *CLOUDS*, AAS 200 poster
4. 2002 May *CLOUDS*, Brown dwarfs, IAU #211 poster
5. 2001 June *A survey for cool white dwarfs*, Where's the matter? , Laboratoire d'Astrophysique de Marseille's Third International Conference , Marseille, France poster
6. 2000 March *EROS 2 proper motion search for Halo White Dwarfs*, XX th astrophysical Moriond Meeting talk
7. 1999 September *EROS 2 Proper Motion Survey*, TauP, France poster
8. 1999 March *EROS 2 Proper Motion Search for Brown Dwarfs* , VLT Opening Symposium, Antofagasta, Chile poster
9. 1999 January *Proper Motion Search with EROS II*, AAS #193, Texas poster
10. 1998 December *EROS II High Proper Motion Search*, Texas Symposium, Paris poster
11. 1998 August *Search for high proper motion halo stars*, the 3rd Mt.Stromlo Symposium: Bright stars and the Galactic Halo, Camberra talk
12. 1998 February *Search for Halo White Dwarfs and Microlensing Search for Dark Matter* at the 2nd Dark Matter Conference, Santa Monica, U.S.A. talk
13. 1997 December *Recherche de naines blanches du Halo*, 7<sup>es</sup> Journées Jeunes Chercheurs at Bénodet, Brittany talk
14. 1997 February *The Eros II Project* at Cambridge Observatory, U.K. talk
15. 1996 December *Science with the Eros II Set up*, the Wide Field Conference at Meudon Observatory, France talk

## ***Conferences Attended***

1. 2001 August      Cool Stars, Stellar Systems, and the Sun , 12th  
Cambridge Workshop, Boulder, U.S.A.
2. 1997 March      2nd International Conference on Brown Dwarfs and  
Extra Solar Planets, Tenerife, Spain
3. 1996 March      Saas Fee Course on AGN, Switzerland
4. 1996 January      2<sup>nd</sup> International Workshop on Microlensing, Orsay,  
France
5. 1995 March      Rencontres de Moriond Astrophysics on Dark Matter

## ***Astronomical Observational Runs***

1. 1991 Sept.      One week at the 2m of Observatoire du Pic du Midi,  
Pyrénées: Pr.Y.Mellier's Gravitational lensing arclets  
detection program
2. 1994 '99      5 months total on the 40cm GPO and 1m Marly  
Telescopes at La Silla, Chile: EROS year long  
observing programs for the detection of Microlensing  
events, SNe and High Proper Motion Stars
3. 1998 January      One week at 0.9m and 4m Blanco Telescopes at Cerro  
Tololo, Chile: Pr.M. T.Ruiz's White Dwarfs  
photometric & spectroscopic follow up
4. 1998 May      Two nights at the E.S.O. 3.6m, La Silla, Chile: EROS  
Supernova low resolution spectrometric follow up
5. 1999 January      Two night at the E.S.O. Danish 1.54m, La Silla, Chile:  
EROS Supernova U,B,V,R,i photometric follow up
6. 2000 October      Two nights at the ESO's 3.6m: spectroscopic follow up  
of EROS high proper motion candidates
7. 2001 '03      Multiple runs on Apache Point Observatory's 3.5m
8. 2001 Nov.      Six nights at Kitt Peak National Observatory on the  
2.1m using SQUID for brown dwarf variability
9. 2002 April      Seven nights at Kitt Peak National Observatory on the  
2.1m using SQUID for CLOUDS
10. 2003 April      Two nights at VLT ANTU using ISAAC

## ***Languages***

French, English written, spoken , Spanish spoken , German written .

## ***Salary history***

|          |          |  |
|----------|----------|--|
| 1990 '95 | É.N.S.   | 15.7 k /yr or -US 18 k/yr plus employer's social security and retirement contributions |
| 1995 '99 | C.É.A.   | 18.3 k /yr or -US 21 k/yr plus employee's social security and retirement contributions |
| 2001 '03 | N.M.S.U. | US 36 k/yr tax free, plus employee's benefits  |