

CV Reynald Pain

December 2010

French Citizen, Born October 4, 1957.

Directeur de Recherche (senior scientist) at *Centre National de la Recherche Scientifique* (CNRS).

Address: LPNHE, Université Pierre et Marie Curie, 4 Place Jussieu, 75252 Paris Cedex 05 France

Tel: + 33 1 44 27 48 36 - Fax: +33 1 44 27 46 38 - Email: Reynald.Pain@in2p3.fr

Academic Qualifications & Awards

2007: Cosmology prize of the Gruber Foundation

1999: Joliot Curie award of the French Physical Society

1987: Ph. D. Thesis, University Pierre et Marie Curie, Paris, France

1984: Thèse de 3^{ième} Cycle (Master Thesis) de l'université Pierre et Marie Curie, Paris, France

1982: Master degree in Theoretical Physics, University Pierre et Marie Curie, Paris, France

Research Activities

1995-now: Supernova Cosmology with Type Ia Supernovae, within the SCP, SNF, SNLS, SNAP and LSST collaborations.

1995-2000: DELPHI experiment at CERN Geneva: Search for Supersymmetric Particles.

1993-1995: Sabbatical at the Lawrence Berkeley National Laboratory: Measurement of Cosmological Parameters with Type Ia Supernovae.

1988-1993: DELPHI experiment at CERN, Geneva: Measurement of the Z^0 Boson Parameters

1984-1988: CHARM experiment at CERN: Measurement of the Electroweak Mixing Angle

1982-1984: CELLO experiment at DESY, Hamburg: Measurement of photon-photon interactions

Recent Responsibilities

2009-now: Director of the Laboratoire de Physique Nucléaire et des Hautes Energies, Université Pierre et Marie Curie (UPMC), Université Paris-Diderot, CNRS/IN2P3

2003-now: French PI of the Supernova Legacy Survey (SNLS) project, Collaboration Board Chair

2007-2009: Coordinator of the IN2P3 LSST project

2002-2006: Coordinator of the French node of the EU RTN "The physics of Type Ia supernovae"

2001-now: French PI of the Nearby Supernova Factory (SNF) project, Collaboration Board Chair

2000-2008: Member of International Board of the Supernova Acceleration Probe (SNAP) project

1998-now: Coordinator of the IN2P3 "Supernova Cosmology" projects

1997-now: Member of Executive Committee of the Supernova Cosmology (SCP) project

Selected Publications

- The Supernova Legacy Survey 3-year Sample: Type Ia supernovae photometric distances and cosmological constraints, SNLS Collaboration, J. Guy et al., **A&A 523 (2010) A7**

- Improved Cosmological Constraints from New, Old, and Combined Supernova Data Sets, SCP Collaboration, M. Kowalski et al., **ApJ 686 (2008) 749**

- The SuperNova Legacy Survey: Measurement of Ω_M , Ω_Λ and w from the first year data set, SNLS Collaboration, P. Astier et al., **A&A 447 (2006) 37**

- New Constraints on Ω_M , Ω_Λ and w from an Independent Set of 11 High-Redshift Supernovae Observed with HST, SCP Collaboration, R. Knop et al., **ApJ 598 (2003) 102**

- The Distant Type Ia Supernova Rate, Supernova Cosmology Project, SCP Collaboration, R. Pain et al, **ApJ 577 (2002) 120**

- Measurement of Ω and Λ from 42 High-redshift Supernovae, SCP Collaboration, S. Perlmutter et al., **ApJ 517 (1999) 565**