

Request for the status of « attaché scientifique » at APC

My request for obtaining the status of “attaché scientifique” at APC is motivated by the following activities :

A) In the thematic group « neutrino » :

- participation to the scientific animation of the group.
- participation to Borexino (en cours de définition). The detector has been filled with scintillator at the beginning of 2007, after more than 4 years of interrupt, and the first data have been published last August. Physics in Borexino concerns solar neutrinos (mainly “beryllium” neutrinos), geoneutrinos and supernova neutrinos.
- participation to Double Chooz (member of the internal reading committee).

B) Responsibilities outside the laboratory: member of the scientific committee of the French *Programme National de Cosmologie*, member of the Fachbeirat of the *MPI für Kernphysik in Heidelberg* and of *MPI für Physik in Munich*, member of the steering committee of *ILIAS* (European astroparticle network), member of the scientific advisory committee of *ISAPP* (International School for Astroparticle Physics).

C) APC responsibility and « residual activities » : member of the CSP (cellule de suivi de projets), partial follow-up of the installation,...

Short Curriculum Vitae (Daniel Vignaud)

Born : December 27, 1944, F-85660 Saint Philbert de Bouaine, France

Nationality : French

Address :

APC, 10 rue Alice Domon et Léonie Duquet, F-75205 Paris Cedex 13, France

Phone: 0033 1 57 27 61 69

Email: vignaud@apc.univ-paris7.fr

Previous positions:

DAPNIA, CEA/Saclay : 1973-1999

Visiting scientist at LNGS and University of Roma 2 : 1989-1990

PCC Collège de France: 1999-2004

APC Paris: 2005-2007

Education and degrees:

1969: Thèse de 3^{ème} cycle on pp collisions, University of Paris XI

1976: Thèse de doctorat d'état on KN collisions, University of Paris XI

Research activities :

1966-1976 : Hadron collisions in bubble chamber experiments

1976-1988: Neutrino interactions in BEBC bubble chamber experiments

1985-1997: Solar neutrino experiment GALLEX

1996-1999: High energy neutrino experiment ANTARES
2000-...: Solar neutrino experiment Borexino
2003-...: Double Chooz reactor neutrino experiment

Research management responsibilities:

1992-1999: Deputy director of DAPNIA/SPP (Service de physique des particules), Saclay
1995-1999: Member of the scientific council of CEA (Commissariat à l'énergie atomique)
1996-2000: Member of the scientific council of CNRS/IN2P3
1999-2004: Director of the PCC (Physique Corpusculaire et Cosmologie), Collège de France
2005-2007 : Deputy director of the APC (Astroparticule et Cosmologie) Laboratory, Paris

Publications :

96 in journal with referees

Some of them:

1. J. Bouchez et al., Z. Phys. 32 (1986) 499
2. M. Spiro and D. Vignaud, Phys. Lett. B242 (1990) 279
3. P. Anselmann et al., Phys. Lett. B285 (1992) 376
4. S. Turck-Chièze et al., Physics Reports 230 (1993) 57
5. P. Anselmann et al., Phys. Lett. B342 (1995) 440
6. W. Hampel et al., Phys. Lett. B447 (1999) 127
7. P. Amram et al., Astroparticle Physics 13 (2000) 127
8. C. Arpesella et al., Astroparticle Physics 18 (2002) 1

Book

“La lumière des neutrinos”, Editions du Seuil, 1995 (with M. Cribier and M. Spiro)

Lectures at Schools

“Solar and supernovae neutrinos” at the School on Non Accelerator Particle Astrophysics, Trieste (Italy), 1995, 1998, 2001

“Neutrino physics and astrophysics”, New Worlds in Astroparticle Physics, Faro (Portugal), 1996

“Comment la masse vint aux neutrinos”, Ecole Joliot-Curie, Lalonde les Maures (France), 2003

Conferences (organization)

May 1989, « Inside the Sun », Versailles (co-initiator)

September 1999, “TAUP99”, Paris (scientific secretary)

June 2004, “Neutrino 2004”, Paris (co-chair)

June 2007, ISAPP School “Multi-messenger in High Energy Astrophysics”, Seillac (co-chair)

Daniel Vignaud
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