

## David MAURIN

**Born** in Annecy (France), on November 13, 1972

**Current position:** Chargé de recherche CNRS at LPSC, AMS group

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### Research Experience

Since 10/10 CR1 at LPSC (Grenoble), AMS-LSST-CREAM group

09/09–09/10 Visiting researcher Univ. of Leicester (UK), theoretical astrophys. group

Since 03/07 Associate researcher IAP (Paris), Cosmology & high energy astrophysics

09/06-09/10 Chargé de recherche (CR1) at LPNHE (Paris), H.E.S.S.

05/06-09/06 INFN fellowship Univ. di Torino (Italy), department of theoretical phys.

04/03-04/06 CDD CNES at Sap/CEA-Saclay, data analysis INTEGRAL/SPI

### Education

02/2001 PhD. in theoretical physics, Université de Savoie: *Cosmic-ray propagation in a diffusion model* (supervisors P. Chardonnet & J.-P. Vialle)

06/1996 MSc. in theoretical physics (DEA de Physique théorique Rhône-Alpin, Lyon)

### Other experiences

- Co-organiser of several workshops supported by the GDR PCHE, FCPPL funding won for a collaboration at IHEP (2008), co-organiser of the departmental seminars at LPNHE (2007-2010).
- Supervisor of several graduate students, co-supervisor of 2 PhD students (A. Putze, thesis defended 09/2009) and A. Charbonnier (defended 10/2010).
- Teaching experience: Université de Savoie (1997-2001).

### Five most relevant publications in the last 5 years

1. Systematic uncertainties on the cosmic-ray transport parameters.  
*D.M., A. Putze & L. Derome* [[A&A 516, 67 \(2010\)](#)]
2. A Markov Chain Monte Carlo to sample transport and source parameters of Galactic CRs.  
*A. Putze, L. Derome & D.M.* [[A&A 516, 66 \(2010\)](#)]
3. Constraints on WIMP Dark Matter from the High Energy PAMELA pbar/p data  
*F. Donato, D.M., P. Brun, T. Delahaye & P. Salati* [[PRL 102, 071301 \(2009\)](#)]
4. Clumpiness boost factors for antimatter CRs in the light of  $\Lambda$ CDM N-body simulations results.  
*J. Lavalle, Q. Yuan, D.M. & X.-J. Bi* [[A&A 479, 427 \(2008\)](#)]
5. Antideuteron fluxes from dark matter annihilation in diffusion models  
*F. Donato, N. Fornengo, & D.M.* [[PRD 78, 043506 \(2008\)](#)]