

Name: Nezri

Firstname: Emmanuel

date of birth: January 13th 1975

place of birth: Aix en Provence (France)

Nationality: French

Marital status: civil union, 3 children

Academic status:

CNRS staff scientist (chargé de recherche CRCN-CNRS) since 2008.

Professional address:

Laboratoire d'Astrophysique de Marseille (LAM)

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Research interests:

Dark matter phenomenology (astrophysical aspects, BSM candidates, direct/indirect detection).

Cosmological simulations, galaxy formation.

Neutrino physics.

Previous positions

2006-2007: FNRS fellow, Theoretical Physics group (Service de Physique Théorique), Brussels (Belgium).

2004-2006: ULB fellow, Theoretical Physics group (Service de Physique Théorique), Bruxelles (Belgium).

2003-2004: ATER (teaching and research position), Paris 7 University, Laboratory for Theoretical Physics(LPT) Orsay and APC, Paris, France.

2003: ULB fellow, Theoretical Physics group (Service de Physique Théorique), Bruxelles (Belgium).

PhD 1999-2002:

Neutrinos and Cosmology in Grand Unification models:

- *Neutralino dark matter detection with the Antares telescope*

- *Oscillations and Leptogenesis in $SO(10)$,*

at Univ. Clermont-Fd II, LPC Clermont-Ferrand (theory group), CPPM Marseille (Antares group).

Supervisors: Jean Orloff and Vincent Bertin.

Supervision:

★ PhD students

- Pol Mollitor (LAM, 2011-2014)

- Arturo Nunez (LAM and CPPM, 2016-2019)

★ Master and licence internships.

Scientific administration:

★ Coordinator of the Astroparticle group of Labex OCEVU.(2015-)

★ Executive Council of Labex OCEVU. (member, 2015-)

Selected Publications

- *Baryonic and dark matter distribution in cosmological simulations of spiral galaxies.*
P. Mollitor, E. Nezri, R. Teyssier. MNRAS 447, Issue 2, p.1353-1369 (2015)
- *Indirect dark matter searches: towards a consistent top-bottom approach for studying the gamma-ray signals and associated backgrounds.*
E. Nezri, J. Lavalle, R. Teyssier. Phys. Rev. D 86, 063524 (2012)
- *gamma-rays from annihilating dark matter in galaxy clusters: stacking vs single source analysis.*
E. Nezri, R. White, C. Combet, J. A. Hinton, D. Maurin, E. Pointecouteau. MNRAS 425, 477 (2012)
- *Dark Matter Direct Detection Signals inferred from a Cosmological N-body Simulation with Baryons.*
F.-S. Ling, E. Nezri, E. Athanassoula, R. Teyssier. JCAP 1002:012,2010, arXiv:0909.2028.
- *The inert doublet model: An archetype for dark matter.*
L. Lopez Honorez, E. Nezri, J. F. Oliver and M. Tytgat JCAP 0702:028,2007, hep-ph/0612275.
- *MeV Right-handed Neutrinos and Dark Matter.*
J.-M. Frere, F.-S. Ling, L. Lopez Honorez, E. Nezri, Q. Swillens, G. Vertongen. Phys.Rev.D75:085017,2007, hep-ph/0610240.
- *Neutralino Dark Matter beyond CMSSM Universality.*
V. Bertin, E. Nezri, J. Orloff. JHEP02 (2003) 046, hep-ph/0210034.
- *Neutrino Oscillations vs Leptogenesis in SO(10) Models.*
E. Nezri, J. Orloff. JHEP 0304 (2003) 020, hep-ph/0004227.