



Radouane Gannouji

Associate Professor

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Field of research

Cosmology

★★★★★★★★★★

Modified gravity

★★★★★★★★★★

Black holes

★★★★★★★★★★

Neutron stars

★★★★★★★☆☆☆

Academic career

Associate professor

2014 – Present

PUCV (Pontifical Catholic University of Valparaíso), Valparaíso, Chile

Postdoctorate

2012 – 2014

ACRU (Astrophysics and Cosmology Research Unit), Durban, South Africa

Postdoctorate

2010 – 2012

Tokyo University of Science, Tokyo, Japan

Postdoctorate

2008 – 2010

IUCAA (Inter-University Centre for Astronomy and Astrophysics), Pune, India

Academic degrees

PhD - University Montpellier 2 - France

2005 – 2008

Title: The mysteries of the accelerated expansion of the universe

Supervisor: David Polarski

Members of the commission: Luca AMENDOLA, Michael JOYCE, Reynald PAIN, David POLARSKI, Philippe ROCHE

Master of Science - University of Paris - France

2003 – 2005

Master in theoretical physics

Bachelor of Science - University of Paris - France

2000 – 2003

Bachelor in physics and Bachelor in mathematics in parallel

Publications

DGP black holes on the brane

Radouane Gannouji.

Eur.Phys.J. C78 (2018) no.4, 318

Global structure of static spherically symmetric solutions surrounded by quintessence

Miguel Cruz, Apratim Ganguly, Radouane Gannouji, Genly Leon, Emmanuel N.

Saridakis.

Class.Quant.Grav. 34 (2017) no.12, 125014

Early-time cosmological solutions in Einstein-scalar-Gauss-Bonnet theory

Panagiota Kanti, Radouane Gannouji, Naresh Dadhich.

Phys.Rev. D92 (2015) no.8, 083524

Gauss-Bonnet Inflation

Panagiota Kanti, Radouane Gannouji, Naresh Dadhich

Phys.Rev. D92 (2015) no.4, 041302

Global structure of black holes via the dynamical system

Apratim Ganguly, Radouane Gannouji, Rituparno Goswami, Subharthi Ray.

Class.Quant.Grav. 32 (2015) 10, 105006

Stability and existence analysis of static black holes in pure Lovelock theories

Radouane Gannouji, Naresh Dadhich.

Class.Quant.Grav. 31 (2014) 165016.

Neutron stars in the Starobinsky model

Apratim Ganguly, Radouane Gannouji, Rituparno Goswami, Subharthi Ray.

Phys.Rev. D89 (2014) 6, 064019.

Quasidilaton nonlinear massive gravity: Investigations of background cosmological dynamics

Radouane Gannouji, Md. Wali Hossain, M. Sami, Emmanuel N. Saridakis.

Phys.Rev. D87 (2013) 123536.

Spontaneous symmetry breaking in cosmos: The hybrid symmetron as a dark energy switching device

K. Bamba, R. Gannouji, M. Kamijo, S. Nojiri, M. Sami.

JCAP 1307 (2013) 017.

Light mass galileons: Cosmological dynamics, mass screening and observational constraints

Amna Ali, Radouane Gannouji, Md.Wali Hossain, M. Sami.

Phys.Lett. B718 (2012) 5-14.

Generic $f(R)$ theories and classicality of their scalarons

Radouane Gannouji, M. Sami, I. Thongkool.

Phys.Lett. B716 (2012) 255-259.

FLRW cosmology in Weyl-Integrable Space-Time

Radouane Gannouji, Hemwati Nandan, Naresh Dadhich.

JCAP 1111 (2011) 051.

Vainshtein mechanism in Gauss-Bonnet gravity and Galileon aether

Radouane Gannouji, M. Sami.

*Phys.Rev. D*85 (2012) 024019.

Chameleon dark energy models with characteristic signatures

Radouane Gannouji, Bruno Moraes, David F. Mota, David Polarski, Shinji Tsujikawa, Hans A. Winther.

*Phys.Rev. D*82 (2010) 124006.

Modified gravity a la Galileon: Late time cosmic acceleration and observational constraints

Amna Ali, Radouane Gannouji, M. Sami.

*Phys.Rev. D*82 (2010) 103015.

Galileon gravity and its relevance to late time cosmic acceleration

Radouane Gannouji, M. Sami.

*Phys.Rev. D*82 (2010) 024011.

Background cosmological dynamics in $f(R)$ gravity and observational constraints

Amna Ali, Radouane Gannouji, M. Sami, Anjan A. Sen.

*Phys.Rev. D*81 (2010) 104029.

The dispersion of growth of matter perturbations in $f(R)$ gravity

Shinji Tsujikawa, Radouane Gannouji, Bruno Moraes, David Polarski.

*Phys.Rev. D*80 (2009) 084044.

Constraining $f(R)$ gravity models with disappearing cosmological constant

I. Thongkool, M. Sami, Radouane Gannouji, Sanjay Jhingan.

*Phys.Rev. D*80 (2009) 043523.

The growth of matter perturbations in $f(R)$ models

Radouane Gannouji, Bruno Moraes, David Polarski.

JCAP 0902 (2009) 034.

The growth of matter perturbations in some scalar-tensor DE models

Radouane Gannouji, David Polarski.

JCAP 0805 (2008) 018.

On the growth of linear perturbations

David Polarski, Radouane Gannouji.

*Phys.Lett. B*660 (2008) 439-443.

Conditions for the cosmological viability of $f(R)$ dark energy models

Luca Amendola, Radouane Gannouji, David Polarski, Shinji Tsujikawa.

Phys.Rev. D75 (2007) 083504.

Scalar-Tensor Models of Normal and Phantom Dark Energy

Radouane Gannouji, David Polarski, Andre Ranquet, Alexei A. Starobinsky.

JCAP 0609 (2006) 016.
