Ivan Agullo

Department of Physics and Astronomy
Louisiana State University
agullo@lsu.edu
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EMPLOYMENT

- **Louisiana State University** Since Aug. 2013
  Assistant Professor of Physics.

- **Cambridge University, DAMTP** Aug. 2012 to Aug. 2013
  Marie Curie Postdoctoral Fellow. Supervisor Prof. Paul Shellard.

- **Penn State University** Oct. 2010 to Aug. 2012
  Postdoctoral Fellow. Supervisor Prof. Abhay Ashtekar.

- **University of Wisconsin-Milwaukee** Apr. 2009 to Oct. 2010
  Postdoctoral Fellow. Supervisor Prof. Leonard Parker.

EDUCATION

- **PhD in Physics**, University of Valencia, Spain July 2009
  PhD advisor: Prof. Jose Navarro-Salas.
  PhD thesis title: Quantum black holes, inflationary cosmology, and the Planck scale.
- **Advanced Studies Diploma in Theoretical Physics** July 2006
  University of Valencia, Spain
  Master thesis title: Black holes, short distances and TeV gravity.
- **Degree in Physics**, University of Valencia, Spain July 2004

HONORS AND AWARDS

- **Marie Curie European Postdoctoral Fellowship 2012**
  Project: Non-Gaussianity in the observable universe and the origin of cosmic inhomogeneities.

- **Eisntein-Galilei Award 2012**
  International award offered annually by the Institute for Theoretical and Advance Mathematics Einstein-Galilei, Italy.

- **First Award in the Gravity Research Foundation essay competition 2011**
  Awarded essay: I. Agullo and L. Parker, "Stimulated creation of quanta during inflation and the observable universe."

- **Young Researcher in Theoretical Physics Award 2011**
  Award offered annually by the Royal Spanish Physical Society for researchers under 35 years old.
- **Extraordinary PhD Prize 2010**
  Award offered annually by the University of Valencia for outstanding PhD thesis.
- **Fourth Award in the Gravity Research Foundation essay competition 2009**
- **FPU Fellowship 2005**
  Offered by the Spanish Ministry of Science to completely fund a 4-years PhD in theoretical physics.
- **Summer Student Fellowship at CERN 2004**
- **Introduction to Research Fellowship, CSIC (Spain) 2003**
- **Undergraduate collaborating-fellow of the Department of Theoretical Physics 2003**

FUNDING SUPPORT

Principal investigator of the NSF grant PHY-1403943 with title *The early universe as a window to quantum gravity.*

Principal investigator of the NSF grant PHY-1503417 with title *Travel support for US researchers attending the 14th Marcel Grossmann Meeting.*

TEACHING

- Quantum field theory in curved spacetimes (3 credits): Spring 2016.
- Electricity and Magnetism (6 credits): Fall 2015 and sprig 2016.
- Introduction to Cosmology for graduates (3 credits): Spring 2015.
- Classical mechanics for graduates (3 credits): Fall 2013, Fall 2014.

EXTENDED PERIODS IN OTHER INSTITUTIONS

- **University of Chicago,** Chicago, IL, U.S.A.
  Year: 2008. Duration: 2 months (July-September).
  Supervisor: Prof. Robert M. Wald.
- **University of Maryland**, College Park, MD, U.S.A.
  Year: 2007. Duration: 3 months (September-November).
  Supervisor: Prof. Ted Jacobson.
- **University of Chicago**, Chicago, IL, U.S.A.
  Year: 2006. Duration: 3 months (July-September).
  Supervisor: Prof. Robert M. Wald.

- **CERN**, Geneve, Switzerland.

  Year: 2004. Duration: 3 months.

SELECTED RECENT INVITED TALKS

- Colloquium Wake Forest University, September 2015, Wiston-Salem, US,

  Title: *The observable universe, gravity and the quantum.*

- Invited talk at Quantum Vacuum and Gravitation, July 2015, Mainz Institute for Theoretical Physics, Mainz, Germany,

  Title: *Loop quantum cosmology and the CMB.*

- Invited talk at General Relativity & Gravitation: a Centennial Perspective, June 2015, Penn State, Pennsylvania, US,

  Title: *Phenomenological consequences of loop quantum cosmology.*

- Invited talk at Erlangen Workshop on Cosmology and Quantum Gravity, January 2015, Erlangen, Germany,

  Title: *Phenomenological consequences of loop quantum cosmology.*

- Invited seminar Simon Fraser University, January 2014, Vancouver, Canada,

  Title: *Primordial magnetic fields and the conformal anomaly.*

- Colloquium University of Wisconsin-Milwaukee, January 2014, Milwaukee, USA.

  Title: *Quantum Gravity and the observable universe.*

- Colloquium Florida Atlantic University, February 2014, Boca Raton, USA.

  Title: *Quantum Gravity and the observable universe.*

- Invited plenary talk, Loops'13 conference, Perimeter Institute, July 2013, Canada.

  Title: *A quantum gravity extension of the inflationary scenario.*

- Invited talk, Quantum Gravity and Fundamental Cosmology Workshop, March 2013, Postdam, Germany.

  Title: *Observational effects from pre-inflationary physics and loop quantum cosmology.*

- Invited seminar, Imperial College of London, January 2013, London, UK.

  Title: *A quantum gravity extension of the inflationary scenario.*

- Invited contribution to the 13th Marcel Grossmann meeting, July 2012, Stockholm, Sweeden.

  Title: *A quantum gravity extension of the inflationary scenario.*

- Invited contribution to the American Physical Society Meeting, April 2012, Atlanta, USA.

  Title: *Beyond the standard inflationary paradigm.*

- Colloquium University of Wisconsin-Milwaukee, March 2011, Milwaukee, USA.
  Title: *Gravity, the quantum, and the observable universe.*