

# Sebastian Bustamante Jaramillo

*Publications and events*

---

## PUBLICATIONS

### 1ST AUTHOR

- 2017** Merger-induced metallicity dilution in cosmological galaxy formation simulations.  
S. Bustamante, M. Sparre, V. Springel, R.J.J. Grand.  
*Submitted to MNRAS.*
- 2015** Tensor anisotropy as a tracer of cosmic voids.  
S. Bustamante, J.E. Forero-Romero.  
MNRAS 453 1 497, 2015.  
**ADS:** [adsabs.harvard.edu/abs/2015MNRAS.453..497B](https://adsabs.harvard.edu/abs/2015MNRAS.453..497B)

### 2ND AUTHOR

- 2017** Origin of chemically distinct discs in the Auriga cosmological simulations.  
R.J.J. Grand, S. Bustamante, F.A. Gómez, D. Kawata, F. Marinacci, R. Pakmor, H-W. Rix.,  
C.M. Simpson, M. Sparre, V. Springel.  
*Accepted for publication in MNRAS*  
**ADS:** [adsabs.harvard.edu/abs/2017arXiv170807834G](https://adsabs.harvard.edu/abs/2017arXiv170807834G)
- 2017** Geomagnetic properties of Proxima Centauri b analogues.  
J.I. Zuluaga, S. Bustamante.  
*Submitted to Planetary and Space Science, Arxiv 1609.00707.*  
**ADS:** [adsabs.harvard.edu/abs/2016arXiv160900707Z](https://adsabs.harvard.edu/abs/2016arXiv160900707Z)
- 2013** The influence of thermal evolution in the magnetic protection of terrestrial planets.  
J.I. Zuluaga, S. Bustamante, P.A. Cuartas, J.H. Hoyos.  
ApJ 770 23, 2013.  
**ADS:** [adsabs.harvard.edu/abs/2013ApJ...770...23Z](https://adsabs.harvard.edu/abs/2013ApJ...770...23Z)

### NTH AUTHOR

- 2017** Lessons from the Auriga discs: the hunt for the Milky Way's ex situ disc is not yet over.  
F.A. Gómez, R.J.J. Grand, A. Monachesi, S.D.M. White, **S. Bustamante**, F. Marinacci, R. Pakmor, C.M. Simpson, V. Springel, D.J.R. Campbell, C.S. Frenk, A. Jenkins.  
MNRAS 472 3 3772, 2017.  
**ADS:** <http://adsabs.harvard.edu/abs/2017MNRAS.472.3722G>
- 2013** The kinematics of the Local Group in a cosmological context.  
, J.E. Forero-Romero, Y. Hoffman, **S. Bustamante**, S. Gottloeber, G. Yepes.  
ApJL 767 L5, 2013.  
**ADS:** [adsabs.harvard.edu/abs/2013ApJ...767L...5F](https://adsabs.harvard.edu/abs/2013ApJ...767L...5F)

### IN PREPARATION

- Spin evolution of supermassive black holes in a cosmological context.**  
S. Bustamante, V. Springel.

---

## TALKS

- 2017 Spin evolution of supermassive black holes in a cosmological context.**  
CAASTRO Conference. From Black Hole to Environment, Canberra, Australia.
- 2017 Merger-induced metallicity dilution in cosmological galaxy formation simulations.**  
Conference the Galaxy Ecosystem. Flow of Baryons through Galaxies, Garching, Germany.
- 2016 Spin evolution of supermassive black holes.**  
Virgo Meeting, Durham, United Kingdom.
- 2015 Tracing cosmic voids in cosmological simulations.**  
Potsdam Institute for Astrophysics (AIP), Potsdam, Germany.
- 2014 The fractional anisotropy as a tracer of cosmic voids.**  
4th Colombian Congress of Astronomy and Astrophysics, Pasto, Colombia.
- 2012 The place of the Local Group in the cosmic web.**  
3rd Colombian Congress of Astronomy and Astrophysics, Bucaramanga, Colombia.
- 2012 Numerical modelling of the interior and thermal evolution of habitable planets.**  
2nd International Congress of Astrobiology, Medellín, Colombia.
- 2011 Thermal evolution of rocky exoplanets.**  
3rd International Congress of Formation and Modelling in Basic Sciences, Medellín, Colombia.
- 2010 PLYNET, Python Planetary Physics Package.**  
2nd Colombian Congress of Astronomy and Astrophysics, Bogotá, Colombia

---

## SCHOOLS AND WORKSHOPS

- 2017 IMPRS Summer School on compact objects and gravitational waves.**  
Max Planck Institute for Astronomy, Heidelberg, Germany.
- 2017 The IFT School on cosmology tools.**  
Universidad Autónoma de Madrid, Madrid, Spain.
- 2016 IMPRS Summer School on astrostatistics.**  
Max Planck Institute for Astronomy, Heidelberg, Germany.
- 2014 1st Andean School of Astronomy and Astrophysics (EAAA).**  
Quito, Ecuador.