

Curriculum vitae

Ernesto Nungesser

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Nationalities: Spanish and German

Education and work

- 07.2015 - Postdoc at ICMAT, Madrid
- 09.2013 - 07.2015 Postdoc at Trinity College Dublin (TCD)
- 10.2012 - 08.2013 Postdoc at Royal Institute of Technology (KTH)
- 06.2012 - 09.2012 Postdoc at Albert Einstein Institute (AEI)
- 01.2009 - 05.2012 PhD in mathematics 2012 at AEI with grade “Magna cum laude”. Thesis: ‘The future of some Bianchi A spacetimes with collisionless matter’ (Supervisor: Alan Rendall)
- 2008 Diploma in physics at *Freie Universität Berlin* with grade “sehr gut”. Thesis: ‘Strong cosmic censorship in polarized T^3 -Gowdy symmetric spacetimes with a Maxwell field’ (Supervisor: Alan Rendall)

Publications

1. (with Lars Andersson, Soumyajit Bose and Alan A. Coley) **Isotropization of solutions of the Einstein-Vlasov system with Bianchi V symmetry** (2013) *Gen. Rel. Gravit.* 46, 1628 (18pp.)
2. (with Woei-Chet Lim) **The electromagnetic spike solutions** (2013) *Class. Quantum Grav.* 30 235020 (13pp.)
3. **Future Non-Linear Stability for Reflection Symmetric Solutions of the Einstein-Vlasov System of Bianchi Types II and VI_0** (2013) *Ann. Henri Poincare* 14, 4, pp. 967-999
4. **Future Non-Linear Stability for Solutions of the Einstein-Vlasov System of Bianchi Types II and VI_0** (2012) *J. Math. Phys.* 53 102503 (19pp.)
5. **Isotropization of non-diagonal Bianchi I spacetimes with collisionless matter at late times assuming small data** (2010) *Classical Quant. Grav.* 27 235025 (14pp.)
6. (with Alan Rendall) **Strong cosmic censorship for solutions of the Einstein-Maxwell field equations with polarized Gowdy symmetry** (2009) *Classical Quant. Grav.* 26 105019 (12pp.)

Teaching experience

Teaching of Partial Differential Equations 1 at Trinity College Dublin, Semester 2014

Organization of a compact course on General Relativity, March 1-3, 2010

Invited seminars/talks

1. May 2015, **Kyung Hee University**, Seoul, *South Korea*
2. December 2014, **Universitat de Valencia**, Valencia, *Spain*
3. November 2014, **Dublin City University**, Dublin, *Ireland*
4. July 2014, **10th AIMS Conference on Dynamical Systems, Differential Equations and Applications**, Madrid, *Spain*
5. January 2014, **ICMAT**, Madrid, *Spain*
6. December 2013, **Universidad Complutense**, Madrid, *Spain*
7. November 2013, Institute of Theoretical Physics, **Charles University**, *Czech Republic*
8. October 2013, Department of Mathematics, **University of California, Davis**, *USA*
9. October 2013, **Mathematical Sciences Research Institute**, Berkeley, *USA*
10. June 2013, Department of Mathematics, **Technische Universität Darmstadt**, *Germany*
11. March 2013, Dep. of Math. and Statistics, **Dalhousie University**, Halifax, *Canada*
12. February 2013, Math. and Statistics Dep., **University of Otago**, Dunedin, *New Zealand*
13. February 2013, Dep. of Math., **University of Waikato**, Hamilton, *New Zealand*
14. January 2013, Mathematics Department, **Universität Bonn**, *Germany*
15. April 2012, DPMMS, **University of Cambridge**, *United Kingdom*
16. Dec. 2011, Analysis, Geometry and Physics sem., **Freie Universität Berlin**, *Germany*
17. Dec. 2011, Non-linear dynamics seminar, **Freie Universität Berlin**, *Germany*
18. September 2010, GR and cosmology seminar, **Universidad de Salamanca**, *Spain*

Contributed talks

1. April 2015, **Grav15**, Cordoba, *Argentina*
2. March-April 2015, **Junior scientist Andrejewski days: 100 years of General Relativity**, Brandenburg an der Havel, *Germany*
3. November 2013, **ANZAMP 2nd Annual Meeting**, Mantra, *Australia*
4. October 2012, **Time Machine Factory**, Turin, *Italy*
5. September 2012, **Spanish Relativity Meeting**, Guimarães, *Portugal*
6. June 2012, **NEB 15 - Recent Developments in Gravity**, Chania, *Greece*
7. April 2012, **Britgrav**, Southampton, *United Kingdom*
8. March 2012, **10th Intern. Conference on Operations Research**, La Habana, *Cuba*
9. February 2012, **Central European Relativity Seminar**, Cracow, *Poland*
10. December 2011, **7th Intern. Conference on Gravitation and Cosmology**, Goa, *India*
11. September 2011, **Institute of Physics Meeting**, London, *United Kingdom*
12. August/September 2011, **Spanish Relativity Meeting**, Madrid, *Spain*
13. Aug. 2011, **6th Intern. Conf. on Diff. and Funct. Diff. Equations**, Moscow, *Russia*
14. September 2010, **Spanish Relativity Meeting**, Granada, *Spain*
15. July 2010, **19th Intern. Conf. on GR and Gravitation**, Mexico City, *Mexico*
16. September 2009, **Spanish Relativity Meeting**, Bilbao, *Spain*
17. April 2009, **Young Researchers in Mathematics**, Cambridge, *UK*

Proceedings

Diagonal Future of Some Non-diagonal Bianchi A Spacetimes with Matter of Vlasov Type

(2014) *Springer Proceedings in Mathematics and Statistics* 60, pp 349-353

(Proceedings of the Spanish Relativity Meeting 2012)

Future Stability for Reflection Symmetric Solutions of the Einstein-Vlasov System of Bianchi Type VI0

(2013) *J. Phys.: Conf. Ser.* 453, 012008

(Proceedings of NEB 15 - Recent Developments in Gravity)

Inextendibility of the Maximal Global Hyperbolic Development in Electrogowdy spacetimes

(2013) *EPJ Web of Conferences* 58, 01004

(Proceedings of the Time Machine Factory conference 2012)

Future non-linear stability of the Einstein-Vlasov system with reflection Bianchi II and VI_0 symmetry

(2012) *AIP Conf. Proc.* 1458, pp. 499-502

(Proceedings of the Spanish Relativity Meeting 2011)

Late-time behaviour of the Einstein-Vlasov system with Bianchi I symmetry (2011) *J. Phys.: Conf. Ser.* 314 012097 (Proceedings of the Spanish Relativity Meeting 2010)

Polarized Electrogowdy spacetimes censored (2010) *J. Phys.: Conf. Ser.* 229 012057 (Proceedings of the Spanish Relativity Meeting 2009)

Reviewing

Since 2014 of **Springer Plus**

Since 2014 of **Canadian Journal of Physics**

Since 2014 of **The European Journal Plus**

Since 2013 of **Classical and Quantum Gravity**

Since 2013 of **Foundations of Physics**

Since 2012 of **Journal of Mathematical Physics**

July 30, 2015