CURRICULUM VITAE Juan Pablo Rossetti

Position

- Adjoint Professor at FaMAF, Universidad Nacional de Córdoba;
- Assistant Researcher, CONICET.

Education

- Licenciate in Mathematics, FaMAF, Universidad Nacional de Córdoba, March 1992
- Ph.D. in Mathematics, FaMAF, Universidad Nacional de Córdoba, April 1999. Thesis title: "Variedades de Hantzsche-Wendt e Isospectralidad" ("Hantzsche-Wendt manifolds and Isospectrality"). Supervisor: Roberto J. Miatello.
- Postdoctoral fellowship, CONICET, to study in Dartmouth College, New Hampshire, USA, 2000-2002. Supervisor: Carolyn S. Gordon.
- Visiting Fellow in Princeton University, August 2002–July 2003, with a fellowship from the John Simon Guggenheim Memorial Foundation to study with John H. Conway.

Research interest: Lattices, Crystallographic groups, Inverse spectral geometry.

Publications

- *Hearing the Platycosms*, with John H. Conway. Preprint. ArXiv: math.DG/0311470.
- Describing the Platycosms, with John H. Conway. Preprint. ArXiv: math.DG/0311476.
- Tetra and Didi, the cosmic spectral twins, with Peter Doyle. Preprint. http://math.dartmouth.edu/ doyle/
- Generalized Hantzsche-Wendt manifolds, with Andrzej Szczepanski. (accepted in Revista Matemática Iberoamericana)

- Boundary Volume and Lenght Spectra of Riemannian Manifolds: What the Hodge Spectrum Doesn't Reveal, with Carolyn S. Gordon. Annales de l'Institut Fourier **53** no. 7 (2003), 2297–2314.
- Length spectra and p-spectra of compact flat manifolds, with Roberto J. Miatello. Journal of Geometric Analysis, **13**, no. 4, (2003), 631–657. Available at the Math. ArXiv, math.DG/0110325.
- Comparison of twisted p-form spectra for flat manifolds with diagonal holonomy, with R.J. Miatello. Annals of Global Analysis and Geometry, **21** (2002), 341–376.
- Flat Manifolds Isospectral on p-forms, with R.J. Miatello. Journal of Geometric Analysis, **11** (2001), 649–667.
- Hantzsche-Wendt Manifolds of Dimension 7, with R.J. Miatello. Proceedings of the VIIth International Conference on "Differential Geometry and Applications", Brno, Czech Rep. 1988, pags 379–390 (1999).
- Isospectral Hantzsche-Wendt Manifolds, with R.J. Miatello. Journal f
 ür die Reine und Angewandte Mathematik (Crelle's Journal), Vol. 515 (1999), pags. 1–23.
- Five-Dimensional Bieberbach Groups with Holonomy Group Z₂ ⊕ Z₂, with Paulo Tirao. "Geometriae Dedicata", Vol. 77 (1999), pags. 149– 172.
- Compact flat manifolds with holonomy group Z₂ ⊕ Z₂ (II), with Paulo Tirao. "Rendiconti del Seminario Matemático dell'Universitá di Padova", Vol. 101 3 (1999), pags. 99–136.
- Compact flat manifolds with holonomy group Z₂ ⊕ Z₂, with Paulo Tirao. Proc. of the Amer. Math. Soc., Vol. **124** (1996), pags. 2491–2499.

Expositions

- *Hearing the platycosms (flat 3-manifolds)*. Inverse Spectral Geometry Workshop, Dartmouth College, November 20-22, 2003.
- Isospectrality of flat 3-manifolds. Can you hear the shape of the universe?, Stony Brook, USA, February 2003.

- What the middle degree Hodge spectrum doesn't reveal, Workshop on Inverse Spectral Geometry, University of Kentucky, USA, June 2002.
- Spectrum and length spectrum of compact hyperbolic surfaces, seminar talk at Dartmouth College, February 2002.
- Length spectra and p-spectra of compact flat manifolds, Workshop on Inverse Spectral Problems at Dartmouth College, June 2001.
- Finite spectrum and a partial converse of Sunada's theorem in the case of flat manifolds of diagonal type, three seminar talks at Dartmouth College, October 2000.
- Flat manifolds isospectral on p-forms. Departmental Colloquium of the Mathematics Department at Dartmouth College, September 2000.
- Isospectral Hantzsche-Wendt Manifolds, seminar talk at Dartmouth College, May 1999.
- Isospectral Flat Manifolds. Presented in the conference "Crystallographic Groups and their Generalizations", Kortrijk, Belgium, May 1999.
- Isospectral Hantzsche-Wendt Manifolds. Presented in the conference "Differential Geometry and Applications", Brno, Czech Rep., August 1998.

Distinctions

- Fellowship from the International Mathematical Union to assist to the International Congress of Mathematicians, Berlin 1998.
- Standard-bearer at FaMAF in 1988.
- National Competition of Mathematics "Ernesto Paenza":

1986 Second place (shared with the third one), 1987 second place, 1988 third place (shared with the fourth and fifth ones)

Others

- Reviewer of the journal "Mathematical Reviews" since 1997.
- Member of the Coordinating Commission of the "VI Olimpíada Iberoamericana de Matematica", Córdoba, September 1991.

- Member of the jury of corrections of the Argentinian Mathematical Olympiad (OMA) in the region "Córdoba" during the period 1992–2000.
- Participant of academic tasks in the National Final of the OMA during the years 1992–1997.
- Member of the Jury in the XVI National Final of OMA, La Cumbre, November 1999.

Feburary 2004