

Dr. Gabriele Benedetti – Publication list

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Published work

- 2017 with Alberto Abbondandolo, Luca Asselle, Marco Mazzucchelli, and Iskander A. Taimanov, *The multiplicity problem for periodic orbits of magnetic flows on the 2-sphere*, Adv. Nonlinear Stud. 17 (2017), no. 1, 17–30, available online.
- On closed orbits for twisted autonomous Tonelli Lagrangian flows*, Lecture notes for the CIMPA Research School "Hamiltonian and Lagrangian Dynamics", A tribute to Ricardo Mañé (1948-1995), Publ. Mat. Urug. 16 (2016), 41–79, available online.
- 2016 with Luca Asselle, *On the periodic motions of a charged particle in an oscillating magnetic field on the two-torus*, Math. Z. (2016). doi:10.1007/s00209-016-1787-6, available online.
- Magnetic Katok examples on the two-sphere*, Bull. Lond. Math. Soc. 48 (2016), no. 5, 855–865, available online.
- with Luca Asselle, *The Lusternik-Fet theorem for autonomous Tonelli Hamiltonian systems on twisted cotangent bundles*, J. Topol. Anal. 8 (2016), no. 3, 545–570, available online.
- 2015 with Kai Zehmisch, *On the existence of periodic orbits for magnetic systems on the two-sphere*, J. Mod. Dyn. 9 (2015), 141–146, available online.
- with Luca Asselle, *Infinitely many periodic orbits of non-exact oscillating magnetic fields on surfaces with genus at least two for almost every low energy level*, Calc. Var. Partial Differential Equations 54 (2015), no. 2, 1525–1545, available online.
- 2014 *The contact property for symplectic magnetic fields on S^2* , Ergodic Theory Dynam. Systems 36 (2016), no. 3, 682–713, available online.

Preprints

- 2018 with Jungsoo Kang, *A local systolic-diastolic inequality in contact and symplectic geometry*, submitted, arXiv:1801.00539.
- 2017 with Luca Asselle, and Marco Mazzucchelli, *Minimal boundaries in Tonelli Lagrangian systems*, submitted, arXiv:1705.02488.
- with Marco Mazzucchelli, *Infinitely many periodic orbits just above the Mañé critical value on the 2-sphere*, submitted, arXiv:1702.08815.

Work in progress

with Alexander Ritter, *Symplectic Cohomology and deformations of non-exact symplectic manifolds*.