

PREPRINTS & PUBLICATIONS THOMAS METTLER

Preprints

3. Holomorphic differentials, thermostats and Anosov flows (with G. Paternain), submitted, [arXiv:1706.03554](#)
2. Minimal Lagrangian connections on compact surfaces, submitted, [arXiv:1609.08033](#)
1. Extremal conformal structures on projective surfaces, submitted, [arXiv:1510.01043](#)

Journal Articles

14. Gauge theory on projective surfaces and anti-self-dual Einstein metrics in dimension four (with M. Dunajski), to appear in *J. Geom. Anal.*, [arXiv:1509.04276](#)
13. $GL(2)$ -structures in dimension four, H -flatness and integrability (with W. Krynski), to appear in *Comm. Anal. Geom.*, [arXiv:1611.08228](#)
12. Characterizing classical minimal surfaces via the entropy differential (with J. Bernstein), *J. Geom. Anal.* 27 (2017), no. 3, 2235–2268, [MR 3667429](#)
11. Convex integration and Legendrian approximation of curves (with N. Hungerbühler, M. Wasem), *J. Convex Anal.* 24 (2017), no. 1, 309–317, [MR 3619673](#) [zbM 06704310](#)
10. Geodesic rigidity of conformal connections on surfaces, *Math. Z.* 281 (2015), no. 1-2, 379–393, [MR 3384876](#) [zbM 1326.53018](#)
9. One-dimensional projective structures, convex curves and the ovals of Benguria & Loss (with J. Bernstein), *Comm. Math. Phys.* 336 (2015), no. 2, 933–952, [MR 3322391](#) [zbM 1319.47015](#)
8. Four-dimensional Kähler metrics admitting c -projective vector fields (with A. Bolsinov, V. Matveev, S. Rosemann), *J. Math. Pures Appl.* 103 (2015), no. 3, 619–657, [MR 3310270](#) [zbM 1312.53095](#)
7. Two-dimensional gradient Ricci solitons revisited (with J. Bernstein), *Int. Math. Res. Not.* 2015 (2015), no. 1, 78–98, [MR 3340295](#) [zbM 1314.53117](#)
6. On Kähler metrisability of two-dimensional complex projective structures, *Monatsh. Math.* 174 (2014), no. 4, 599–616, [MR 3233113](#) [zbM 1303.53019](#)
5. Weyl metrisability of two-dimensional projective structures, *Math. Proc. Camb. Philos. Soc.* 156 (2014), no. 1, 99–113, [MR 3144212](#) [zbM 06283094](#)
4. Reduction of β -integrable 2-Segre structures, *Comm. Anal. Geom.* 21 (2013), no. 2, 331–353, [MR 3043749](#) [zbM 1279.53026](#)
3. Soliton solutions of the mean curvature flow and minimal hypersurfaces (with N. Hungerbühler), *Proc. Amer. Math. Soc.* 140 (2012), no. 6, 2117–2126, [MR 2888198](#) [zbM 1252.49066](#)

2. Local embeddability of real analytic path geometries,
[Differential Geom. Appl. 30 \(2012\), no. 2, 222–226, MR 2913076 zbM 1250.32032](#)
1. Charges of twisted branes, the exceptional cases (with M. Gaberdiel, S. Fredenhagen),
[J. High Energy Phys. 058 \(2005\), no. 5, 1–13, MR 2155048](#)

Theses

2. On the Weyl metrisability problem for projective surfaces and related topics, Ph.D. thesis in Mathematics, Université de Fribourg, Switzerland, 2010.
1. D-brane charges in WZW models, Diploma thesis in Physics, ETH Zürich, Switzerland, 2005.