

LIST OF PUBLICATIONS THOMAS METTLER

Preprints & Articles in Press

5. Geometric theory of Weyl structures (with A. Cap)
[arXiv:1908.10325](#), 37 pages, submitted
4. Deformations of the Veronese embedding and Finsler 2-spheres of constant curvature (with C. Lange)
[arXiv:1812.00827](#), 30 pages, submitted
3. Convex projective surfaces with compatible Weyl connection are hyperbolic (with G. Paternain)
[Anal. PDE](#) (to appear)
[arXiv:1804.04616](#)
2. Extremal conformal structures on projective surfaces
[Ann. Sc. Norm. Super. Pisa Cl. Sci.](#) (to appear)
[arXiv:1510.01043](#)
1. $GL(2)$ -structures in dimension four, H -flatness and integrability (with W. Krynski)
[Comm. Anal. Geom.](#) (to appear)
[arXiv:1611.08228](#)

Journal Articles

15. Minimal Lagrangian connections on compact surfaces
[Adv. Math.](#) 354 (2019)
MR 3987443 [arXiv:1609.08033](#)
14. Holomorphic differentials, thermostats and Anosov flows (with G. Paternain)
[Math. Ann.](#) 373 (2019), no. 1-2, 553–580
MR 3968880 [zbM 07051751](#) [arXiv:1706.03554](#)
13. Gauge theory on projective surfaces and anti-self-dual Einstein metrics in dimension four (with M. Dunajski)
[J. Geom. Anal.](#) 28 (2018), no. 3, 2780–2811
MR 3833818 [zbM 07002652](#) [arXiv:1509.04276](#)
12. Characterizing classical minimal surfaces via the entropy differential (with J. Bernstein)
[J. Geom. Anal.](#) 27 (2017), no. 3, 2235–2268
MR 3667429 [zbM 1379.53012](#) [arXiv:1301.1663](#)
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 1366.53059](#) [arXiv:1507.07661](#)
10. Geodesic rigidity of conformal connections on surfaces
[Math. Z.](#) 281 (2015), no. 1-2, 379–393
MR 3384876 [zbM 1326.53018](#) [arXiv:1410.8501](#)

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](#) [arXiv:1403.8000](#)
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](#) [arXiv:1311.0517](#)
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](#) [arXiv:1303.6854](#)
6. On Kähler metrisability of two-dimensional complex projective structures
[Monatsh. Math.](#) 174 (2014), no. 4, 599–616
[MR 3233113](#) [zbM 1303.53019](#) [arXiv:1304.2611](#)
5. Weyl metrisability of two-dimensional projective structures
[Math. Proc. Camb. Philos. Soc.](#) 156 (2014), no. 1, 99–113
[MR 3144212](#) [zbM 1291.53015](#) [arXiv:0910.2618](#)
4. Reduction of β -integrable 2-Segre structures
[Comm. Anal. Geom.](#) 21 (2013), no. 2, 331–353
[MR 3043749](#) [zbM 1279.53026](#) [arXiv:1110.3279](#)
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](#) [arXiv:1104.4166](#)
2. Local embeddability of real analytic path geometries
[Differential Geom. Appl.](#) 30 (2012), no. 2, 222–226
[MR 2913076](#) [zbM 1250.32032](#) [arXiv:1202.1250](#)
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](#) [arXiv:hep-th/0504007](#)

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.