

## Publications, current work and academic work published

Thomas Mettler, Prof. Dr.

UniDistance Suisse

thomas.mettler@fernuni.ch / thomas.mettler@unidistance.ch

## **Preprints**

• Geometric theory of Weyl structures (with A. Cap). submitted, 37 pp.

## **Journal Articles**

- Deformations of the Veronese embedding and Finsler 2-spheres of constant curvature (with C. Lange).
  J. Inst. Math. Jussieu (to appear), 32 pp.
- Vortices over Riemann surfaces and dominated splittings (with G. Paternain). Ergodic Theory Dynam. Systems (to appear), 26 pp.
- Metrisability of projective surfaces and pseudo-holomorphic curves. Math. Z. 298 (2021), 10 pp.
- Extremal conformal structures on projective surfaces. Ann. Sc. Norm. Super. Pisa Cl. Sci. (5) XX (2020), 43 pp.
- Convex projective surfaces with compatible Weyl connection are hyperbolic (with G. Paternain). Anal. PDE 13 (2020), 25 pp.
- GL(2)-structures in dimension four, H- atness and integrability (with W. Krynski). *Comm. Anal. Geom.* 27 (2019), 18 pp.
- Minimal Lagrangian connections on compact surfaces. Adv. Math. 354 (2019), 36 pp.
- Holomorphic differentials, thermostats and Anosov ows (with G. Paternain). Math. Ann. 373 (2019), 28 pp.
- Gauge theory on projective surfaces and anti-self-dual Einstein metrics in dimension four (with M. Dunajski). J. Geom. Anal. 28 (2018), 32 pp.
- Characterizing classical minimal surfaces via the entropy differential (with J. Bernstein). J. Geom. Anal. 27 (2017), 34 pp.
- Convex integration and Legendrian approximation of curves (with N. Hungerbühler, M. Wasem). J. Convex Anal. 24 (2017), 9 pp.
- Geodesic rigidity of conformal connections on surfaces. Math. Z. 281 (2015), 15 pp.
- One-dimensional projective structures, convex curves and the ovals of Benguria & Loss (with J. Bernstein). Comm. Math. Phys. 336 (2015), 20 pp.
- Four-dimensional Kähler metrics admitting c-projective vector fields (with A. Bolsinov, V. Matveev, S. Rosemann). *J. Math. Pures Appl. 103* (2015), 39 pp.
- Two-dimensional gradient Ricci solitons revisited (with J. Bernstein). Int. Math. Res. Not. 2015 (2015), 21 pp.
- On Kähler metrisability of two-dimensional complex projective structures. *Monatsh. Math.* 174 (2014), 18 pp.
- Weyl metrisability of two-dimensional projective structures. *Math. Proc. Camb. Philos. Soc.* 156 (2014), 15 pp.
- Reduction of beta-integrable 2-Segre structures. Comm. Anal. Geom. 21 (2013), 24 pp.
- Soliton solutions of the mean curvature ow and minimal hypersurfaces (with N. Hunger-bühler). Proc. Amer. Math. Soc. 140 (2012), 10 pp.
- Local embeddability of real analytic path geometries. Differential Geom. Appl. 30 (2012), 4 pp.
- Charges of twisted branes: the exceptional cases (with M. Gaberdiel, S. Fredenhagen). J. High Energy Phys. 2005 (2005), 13 pp.



## Theses

- On the Weyl metrisability problem for projective surfaces and related topics Advisor: Prof. Dr. Norbert Hungerbühler Ph.D. thesis in Mathematics, Université de Fribourg, Switzerland, (2010)
- D-brane charges in WZW models Advisor: Prof. Dr. Matthias Gaberdiel Diploma thesis in Physics, ETH Zürich, Switzerland, (2005)