E I N L A D U N G

im Rahmen des [Seminars in Geometric Analysis and Physics](#)

([GAP Seminar](#))

zum Vortrag

von

Peter Michor

(Universität Wien)

über

On the space of Riemannian metrics of finite Sobolev order on a compact manifold

Abstract: For a compact manifold M, we consider the space of $\mathrm{Met}_{H^k}(M)$ of Riemannian metrics on M of Sobolev order H^k for $k > \dim(M)/2$. We consider the Levi-Civita covariant derivative and the Laplacian and show that they depend on the metric real analytically, and we discuss which Sobolev spaces can be described by such Laplacians.

Zeit: Donnerstag, 21.05.2015, 11:00

Ort: Fakultät für Mathematik, Universität Wien

Oskar-Morgenstern-Platz 1, 2. Stock, Besprechungszimmer.

gez.: M. Bauer (Fak. Math, U.V.)

V. Branding (Fak. Math, T.U.)

D. Fajman (Fak. Phys, U.V.)

J. Joudioux (Fak. Phys, U.V.)