## Local flexibility of open partial differential relations

Friday, November 9, 2018 3:30 PM (50 minutes)

In his famous book on partial differential relations Gromov formulates an exercise concerning local deformations of solutions to open partial differential relations. We will explain the content of this fundamental assertion and sketch a proof.

We will illustrate this by various examples, including the construction of  $C^{1,1}$ -Riemannian metrics which are positively curved "almost everywhere" on arbitrary manifolds.

This is joint work with Christian Bär (Potsdam).

## Summary

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