

Oberseminar Geometrie
Department of Mathematics
University of Fribourg
Seminar room, Math II (Lonza)
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A proof of Morrey's inequality

We prove comparison results for integral and Hölder norms on distance balls in Riemannian manifolds and in euclidean space that are independent of the injectivity radius. As consequences, we derive explicit versions of Morrey's inequality and a regularity estimate for the Laplacian on a Riemannian manifold. This is part of joint work with B. Colbois.