

« PREMIÈRE RENCONTRE MATHÉMATIQUE BAVIÈRE–QUÉBEC »
30 NOVEMBRE–3 DÉCEMBRE, 2009

“FIRST BAVARIA–QUÉBEC MATHEMATICAL MEETING”
NOVEMBER 30–DECEMBER 3, 2009

Nonpositive curvature and critical points

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This survey talk discusses a number of connections between differential geometry, elliptic PDEs and geometric function theory. An emphasis will be on some recent progress on the Berger–Nirenberg problem in differential geometry and the distribution of critical points of bounded analytic functions.

This is joint work with Daniela Kraus.