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Classification of singular, fractional Yamabe metrics on twice-punctured spheres

The Delaunay metrics form a particularly nice family of complete, constant Q-curvature metrics on a twice-punctured sphere. After a global conformal transformation, they are all rotationally invariant and periodic, and uniquely determined by their minimum period. We show that, for s less than but close to one, any complete, constant Q-curvature metric of (fractional) order s on a twice punctured sphere is a Delaunay metric. Along the way we obtain sharp a priori estimates, which may be of independent interest.

This is joint work with Joào Henrique Andrade, Azahara DelaTorre, João Marcos do Ò and Juncheng Wei.

Ort: Mathmatik Ost, 40.01.003   Zeit: Donnerstag, 29.01.2026 um 12:00 Uhr

You are cordially invited to this lecture. Request the Zoom link from anja.schloemerkemper@uni-wuerzburg.de

gez. Anja Schlömerkemper