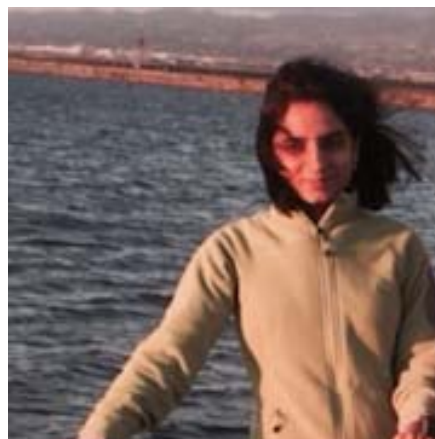


FELIX KLEIN SEMINAR

Speaker: Priyanka Rajan
University of Notre Dame



Date: Thursday, November 8, 2018

Time: 2:00 PM

Location: 258 Hurley Hall

Lecture Title:

Exotic Spheres of Cohomogeneity two

Abstract

Eldar Straume classified non-linear isometric group actions of cohomogeneity two on homotopy spheres. In a joint work Searle, we provide some evidence for the following: Let Σ^n be an n -dimensional homotopy sphere of strictly positive sectional curvature. Suppose G acts on Σ^n isometrically and effectively by cohomogeneity two. Then Σ^n is G -equivariantly diffeomorphic to $S^{n(1)}$ with a linear G -action.