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Title: On Topology and Geometry of Symmetric Product of Surfaces.

Abstract: We will discuss some geometric and topological properties of symmetric products $SP^n(M_g)$ of orientable surfaces. In particular, we investigate when they admit a positive scalar curvature and compute the macroscopic dimension of their universal covers. We study when they have symplectically aspherical symplectic structures and construct a family of totally symplectically aspherical c-symplectic manifolds which are not aspherical. (This is joint work with Luca Di Cerbo and Ekansh Jauhari)