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Title: Four manifolds with a free circle action: symplectic structures and the complexity of surfaces

Abstract: Let M be a closed 4-manifold with a free circle action and denote by N the orbit space. It is conjectured that the Thurston norm ball of N determines the symplectic cone on M and the minimal complexity of surfaces in N . We will talk about recent progress regarding this conjecture. This is joint work with Stefano Vidussi.