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Title: Symplectic 4-Manifolds with Trivial Canonical Bundle

Abstract: Symplectic 4-manifolds appear as central ingredients in the study of 4-manifolds. In the last 25 years, there has been an enormous advance in our understanding of symplectic manifolds. However, except in few cases, it is still unknown whether the examples we know represent the whole world of symplectic 4-manifolds. In this talk I will show how, combining techniques from 3- and 4-dimensional topology it is possible to determine all symplectic 4-manifolds with trivial canonical bundle that admit a free circle action. (Joint work with Stefan Friedl).