Stability of coisotropic fibrations on irreducible holomorphic symplectic manifolds

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Abstract. We investigate the stability of fibers of coisotropic fibrations on irreducible symplectic manifolds and generalize Voisin's result on Lagrangian subvarieties to this framework. We present applications to such manifolds which are deformation equivalent to Hilbert schemes of points on a K3 surface or to generalized Kummer manifolds.

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