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Lagrangian submanifold

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If (M, ω) is a <http://planetmath.org/SymplecticManifolds> symplectic $2n$ -manifold, then a submanifold L is called <http://planetmath.org/IsotropicSubmanifold> if it is isotropic, and of dimension n . This is the maximal dimension an isotropic submanifold can have, by the non-degeneracy of ω .