

Real Lagrangian Tori and Versal Deformations

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Abstract:

Can a given Lagrangian submanifold be realized as the fixed point set of an anti-symplectic involution? If so, it is called real. In this talk we will introduce the basic ingredients of this question and mention some recent progress on finding obstructions to being real. In particular we will emphasize the difference between this symplectic question and its smooth analogue: Can a given submanifold be realized as the fixed point set of a smooth involution? This illustrates one of the central themes in symplectic topology, namely understanding the difference between symplectic and smooth phenomena.

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