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On The Legendrian Simplicity Of Real Links

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ABSTRACT

The link manifold of a real algebraic surface singularity is a 3-manifold with a canonical contact structure on it. The real points of this manifold is a smooth 1-dimensional manifold which we call the real link of the singularity. We prove that the real link of a contact link manifold of a simple singularity has maximal Thurston-Bennequin invariant in its link type. Furthermore, we show that a Legendrian link of that link type is uniquely determined by its Thurston-Bennequin invariant and rotation number.