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Unfolding CR singularities of real 4-manifolds in \mathbb{C}^5

A real 4-submanifold in \mathbb{C}^5 is “CR singular” at a point where the tangent space contains a complex line. The local extrinsic geometry of a real analytic embedding near a CR singularity is studied by finding a normal form for the defining equations under biholomorphic transformations. We also consider one-parameter families of embeddings, and find a normal form for a family exhibiting a cancellation of a pair of CR singularities.