

Singular genuine rigidity

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Abstract

It has been shown recently that singularities in isometric extensions must be allowed in order to obtain global rigidity results of Euclidean submanifolds outside the realm of hypersurfaces. Using this as motivation, we then incorporate singularities in the theory of genuine rigidity of submanifolds. In the process, we found out that embracing singularities is quite natural and straightforward, even for local purposes, allowing us to deeply simplify the theory of genuine rigidity. This is joint work with Luis Florit.