BIHARMONIC CURVES ON AN INVARIANT SURFACE

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Resumo. We study the biharmonic curves in an invariant surface of a three dimensional manifold generalizing the case of biharmonic curves in a surfaces of revolution of $\mathbb{R}^3$. The main results are: the characterization of proper bi-harmonic orbits; the explicit description of proper biharmonic curves in a invariant surface with constant positive curvature.

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