

Ribaucour-type hypersurfaces

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Abstract. In this work, we generalize the notion of Ribaucour-type surfaces (RT-surfaces) studied in [6] and [7] to higher dimensions and introduce Ribaucour-type hypersurfaces (RT-hypersurfaces). We obtain a representation for hypersurfaces with prescribed normal mapping. We prove that RT-hypersurfaces are determined by a real function that satisfies a second-order differential equation. As an application, we classify rotational RT-hypersurfaces.

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