

## SEMINÁRIO DE GEOMETRIA DIFERENCIAL

**Hypersurfaces with planar lines of curvature in  
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Auditório / MAT

**Abstract.** In this work, we present explicit parametrizations of hypersurfaces parametrized by lines of curvature with prescribed Gauss map and we characterize the hypersurfaces with planar curvature lines. As an application, we obtain a classification of isothermic surfaces with respect to the third fundamental form with two planar curvature lines. Also, we present a class of surfaces with one family of planar curvature lines and generalize these results to present classes of hypersurfaces with families of planar curvature lines.