

SEMINÁRIO DE GEOMETRIA DIFERENCIAL

On Dupin hypersurfaces with constant Laguerre curvature

Keti Tenenblat
UnB

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Abstract. Proper Dupin hypersurfaces M^n in R^{n+1} , $n \geq 3$, parametrized by lines of curvature, and n distinct principal curvatures, will be considered. Assuming that M^n that the principal curvatures do not vanish, all such Dupin hypersurfaces with constant Laguerre curvatures will be given explicitly. In particular, it will be shown that they are determined by n real constants, namely, $(n - 2)$ Daguerre curvatures and two other constants. This is a joint work with M. Cezana.