

# On Dupin hypersurfaces with constant Laguerre curvature

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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. Known results on submanifolds  $M^n$ , with constant Moebius curvature, will be reviewed. 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,  $(n - 2)$  Laguerre curvatures and two other constants, one of them being nonzero.