

[Altay, Sezgin; Özen, Füsün](#)

Nets of asymptotic lines in a Riemannian hypersurface with non-symmetric metric connection. (English) [[Zbl 1034.53017](#)]

Mladenov, Ivailo M. (ed.) et al., Proceedings of the 4th international conference on geometry, integrability and quantization, Sts. Constantine and Elena, Bulgaria, June 6–15, 2002. Sofia: Coral Press Scientific Publishing (ISBN 954-90618-4-1/pbk). 127-134 (2003).

Suppose that M^n be a hypersurface in a Riemannian manifold M^{n+1} . A curve C on M^n is called asymptotic if the normal curvature along the curve C vanishes identically. In the paper under review the authors study the hypersurfaces M^n for which the n families of asymptotic lines form a special net (Chebyshev, geodesic, or strongly metric Chebyshev).

For the entire collection see [[Zbl 1008.00022](#)].

Reviewer: [Vladislav V. Goldberg \(Newark\)](#)

MSC:

[53B25](#) Local submanifolds

[53B20](#) Local Riemannian geometry

Keywords:

[Riemannian manifold](#); [hypersurface](#); [asymptotic line](#); [net](#)