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Periodic lines of curvature bifurcating from Darbouxian umbilical connections. (English)

[Zbl 0714.34057](#)

Bifurcations of planar vector fields, Proc. Meet., Luminy/Fr. 1989, Lect. Notes Math. 1455, 196-229 (1990).

Summary: [For the entire collection see [Zbl 0707.00011](#).]

The configurations of lines of curvature around separatrices joining Darbouxian umbilical points as well as their patterns of bifurcation to closed principal lines are studied.

MSC:

[34C23](#) Bifurcation theory for ordinary differential equations

[34C05](#) Topological structure of integral curves, singular points, limit cycles of ordinary differential equations

Cited in **3** Documents

Keywords:

separatrices; Darbouxian umbilical points; patterns of bifurcation to closed principal lines