Publ. Math. Debrecen **107/1-2** (2025), 33–50

DOI: 10.5486/PMD.2025.9876

Soliton to the higher-order curvature flow on surfaces

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Abstract. Schwetlick introduced in [34] a sixth- and an eighth-order conformal flow on surfaces. In this paper, we consider solitons to these flows. We prove that any compact soliton must be trivial. We also prove some rigidity results for noncompact solitons.

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 $\label{lem:matter} \textit{Mathematics Subject Classification: Primary: 53C44, 53E40; Secondary: 53C25.} \\ \textit{Key words and phrases: soliton, geometric flow, surface.}$