



Mathematics > Differential Geometry

The H-flow translating solitons in R^3 and R^4

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Motivated by Ilmanen's correspondence, we present an explicit solution to the prescribed Hoffman-Osserman Gauss map problem for non-minimal translators to the mean curvature flow in Euclidean 4-space. We propose a conjecture on the non-existence of Jenkins-Serrin type unit-speed graphical translators.

Comments: Example 3 and an acknowledgement are added. As an application of our prescribed Gauss map representation of translators in R^4 , we explicitly determine the Hoffman-Osserman Gauss map of the Hamiltonian stationary Lagrangian translator in C^2

Subjects: **Differential Geometry (math.DG)**; Analysis of PDEs (math.AP)

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