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Volume minimising unit vector fields on three dimensional space forms of positive curvature.

Summary: We prove that on a closed 3-manifold of constant positive curvature the unit vector fields of minimum volume are exactly the Hopf vector fields.

MSC:
53C24 Rigidity results
53C20 Global Riemannian geometry, including pinching
53C42 Differential geometry of immersions (minimal, prescribed curvature, tight, etc.)

Full Text: DOI

References:

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