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On biconservative hypersurfaces in pseudo-Riemannian space forms and their Gauss map.

Summary: We first present a survey about recent results on biconservative hypersurfaces in the Minkowski space $\mathbb{E}^4_1$, pseudo-Euclidean space $\mathbb{E}^5_2$ and Riemannian space-form $\mathbb{H}^4$. Then we obtain some geometrical properties of these hypersurface families concerning their mean curvature and Gauss map.

MSC:
53C40 Global submanifolds
53C42 Differential geometry of immersions (minimal, prescribed curvature, tight, etc.)
53C50 Global differential geometry of Lorentz manifolds, manifolds with indefinite metrics

Keywords:
biharmonic submanifolds; Lorentzian hypersurfaces; biconservative hypersurfaces; finite type submanifolds

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References:


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