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Spacelike hypersurfaces in anti-de Sitter space. (English) Zbl 1295.53060

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Summary: In this paper, we study closed space-like hypersurfaces in anti-de Sitter space. Using the Bonnet-Myers theorem, we obtain a rigidity theorem for space-like hypersurfaces without the constancy condition on the mean curvature or the scalar curvature.

MSC:

53C40 Global submanifolds

53B30 Local differential geometry of Lorentz metrics, indefinite metrics

Keywords:

space-like hypersurfaces; anti-de Sitter space; second fundamental form; fundamental group; mean curvature

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