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Jianguo Sun* (sunjg616@163.com), N5268 renming street changchun Jilin China, 130024. *The families of Gauss indicatrices on Lorentzian hypersurfaces in pseudo-spheres in semi-Euclidean 4 space.* Preliminary report.

We consider the one-parameter families of Gauss indicatrices on Lorentzian hypersurfaces in pseudo-sphere in semi-Euclidean 4 space with index 2 and give the singularities of the Lorentzian hypersurfaces by the contact theory. (Received November 29, 2011)