

# UFSCar

## DEPARTAMENTO DE MATEMÁTICA

### Mini Curso

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Falará sobre:

### Spacelike surfaces in the Lorentzian metric space

**Resumo.** Minkowski space is related to the theory of relativity, and its metric is a type of Lorentzian metrics, which gives some interesting phenomena. There are three types of pseudo spheres, which are called by hyperbolic space, de Sitter space and lightcone. We discuss the geometry of these spaces and analogous study of the Gauss maps. Izumiya, Pei and Sano investigated the differential geometry of hyperbolic space with respect to the lightcone Gauss images. We study analogous study of the differential geometry of hypersurfaces in de Sitter space and consider geometrical properties of singularities of the lightcone Gauss images.

*DATA: 08/07/2011    HORÁRIO: 10:00 Hs*  
*LOCAL: Sala 20 (DM - UFSCar)*