Mini-Workshop in Metric Geometry



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Geometry of null hypersurfaces

Saturday, June 24, 2017 9:30 AM (1 hour)

Given a semi-Riemannian manifold \overline{M} with metric \overline{g} , a submanifold M of \overline{M} is null if the restriction g of \overline{g} to M is degenerate. These objects deserve some attention, because of their connection with some areas like the study of black holes and others. In general, some properties of M cannot be studied with the usual differential geometric methods, but here we discuss the case of null hypersurfaces in Lorentzian space forms. This is a joint work with M. Navarro and D. Solis (UADY-Mexico)

Presenter: Prof. PALMAS, Oscar (Facultad de Ciencias, UNAM, Mexico)