Handan Yildirim* (handanyildirim@istanbul.edu.tr), Istanbul University Science Faculty, Mathematics Department Vezneciler-Fatih, 34134 Istanbul, Turkey. \( \phi \)-hyperbolic duals of spacelike hypersurfaces in the lightcone as wave front sets.

In this talk which is based on a joint work with Shyuichi Izumiya, as an application of the extended Legendrian dualities defined in [1] depending on a parameter \( \phi \in [0, \pi/2] \), first one-parameter families of extrinsic differential geometries on spacelike hypersurfaces in the lightcone are introduced briefly with respect to \( \phi \)-hyperbolic duals. Then, by means of Legendrian singularity theory, these duals are investigated as wave front sets, [2].

References


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