# Slant geometry on spacelike submanifolds of codimension two

### Handan Yıldırım

### Istanbul University

#### Abstract

In this talk, we construct slant geometry on spacelike submanifolds of codimension two in Lorentz-Minkowski space, [5]. Thus, we generalize some of the results which were obtained in [2]. Moreover, we interpret the results which were given in [1], [3] and [4] as special cases of our results. Furthermore, we investigate spacelike curves in Lorentz-Minkowski 3-space from different viewpoints as another special case.

## References

- M. Asayama, S. Izumiya, A. Tamaoki and H. Yıldırım, Slant geometry of spacelike hypersurfaces in Hyperbolic space and de Sitter space, Revista Matemática Iberoamericana, 28(2) (2012), 371-400.
- [2] S. Izumiya and M. C. Romero Fuster, The lightlike flat geometry on spacelike submanifolds of codimension two in Minkowski space, Selecta Mathematica New Series, 13 (2007), 23-55.
- [3] S. Izumiya and H. Yıldırım, Extensions of the mandala of Legendrian dualities for pseudo-spheres in Lorentz-Minkowski space, Topology and its Applications, 159 (2012), 509-518.
- [4] S. Izumiya and H. Yıldırım, Slant geometry of spacelike hypersurfaces in the lightcone, J. Math. Soc. Japan, 63 (3) (2011), 715-752.
- [5] S. Izumiya and H. Yıldırım, Slant geometry on spacelike submanifolds of codimension two in Lorentz-Minkowski Space, *Journal of Geometry and Physics* 98 (2015), 160–180.