

**Talk Title:** On Restriction of the Fourier Transform to Surfaces with Negative Curvature

**Abstract:** We consider the problem of restriction of the Fourier transform to surfaces in  $\mathbb{R}^3$  with nonvanishing gaussian curvature. The methods developed since the nineties (bilinear, multilinear or polynomial partitioning), have produced new results for positive curvature surfaces and the particular case of the saddle. In joint work with Stefan Buschenhenke and Detlef Müller, we have obtained the desired result for the general negative curvature case.