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Fourier restriction to hyperbolic rectangles and an application

In this talk, we study the Lebesgue space inequalities for extension operators associated with hyperbolic surfaces in $\mathbb{R}^3$ over rectangular regions. In the polynomial-method range, we characterize the corresponding operator norms in terms of the side-lengths. As an application, we present new restriction estimates for a class of hypersurfaces with additive structure.