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Dual Furstenberg Sets

Recently, Ren and Wang resolved the Furstenberg set problem in the plane; a fractal version of the Kakeya problem. In the plane, via a tool known as point-line duality, the Furstenberg set problem is directly related to a problem often referred to as the dual Furstenberg set problem. The focus of this talk will be the dual Furstenberg set problem in higher dimensions, motivated by problems in/applications to projection theory. This is joint work with Yuqiu Fu and Kevin Ren.