Recent advances in the regularity theory of area minimizing currents

Paul Minter

Abstract. In this talk, I will present new results establishing rectifiability of the singular set of area minimizing currents as well as uniqueness of tangent cones at almost every singular point. These results hold in arbitrary codimension and provide fine structural information of singularities in area minimizing surfaces, building off Almgren’s dimension bound. This is joint work with Camillo De Lellis (IAS) and Anna Skorobogatova (Princeton).