

## Calderon -Zygmund Analysis Seminar

Monday, Nov 25, 2019, 3:45 pm, Eck 202

### Boundary regularity of area-minimizing currents: a linear model with analytic interface

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**Abstract.** Given a curve  $\Gamma$ , what is the surface  $T$  that has smallest area among all surfaces spanning  $\Gamma$ ? This classical problem and its generalizations are called Plateau's problem. In this talk we consider area minimizers among the class of integral currents, or roughly speaking, orientable manifolds. Since the 1960s a lot of work has been done by De Giorgi, Almgren, et al to study the interior regularity of these minimizers. Much less is known about the boundary regularity, in the case of codimension greater than 1. I will speak about some recent progress in this direction.