

Colloquium

University of Notre Dame
Department of Mathematics

Speaker: Nicholas Edelen

MIT

Will give a lecture entitled

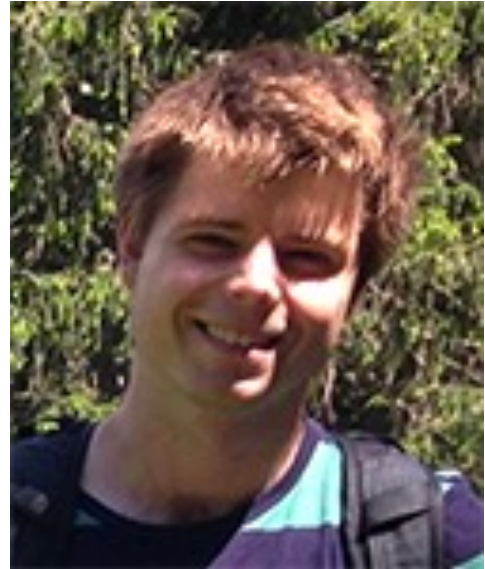
Singularities of soap films

Date: Monday, November 12, 2018

Time: 4:00 PM

Location: 117 Hayes-Healy Hall

Departmental Tea: Tea in Room 257 (lounge in Hurley Hall) at 3:30 p.m.



Abstract:

Soap films are mathematically modeled by minimal surfaces, which are critical points for area, in the sense that local variations do not change area to first order. Minimal surfaces have a long and rich history, and have found use in applications ranging from knot theory to general relativity. Like the physical soap films they model, minimal surfaces will not be smooth in general. In this talk we survey some recent progress in our understanding of the singularities that can occur. This talk will include joint work with Maria Colombo, Aaron Naber, Luca Spolaor, and Daniele Valtorta.