Many Cheerful Facts

Organizers: Yael Degany & Jason Ferguson

Friday, 2:10pm–3:00pm, 891 Evans

June 25 **Taryn Flock**, UC Berkeley Laplacians on Quadratic Julia Sets (and other fractals)

The Laplacian is an important differential operator (appearing in the heat equation, wave equation, etc). In \mathbb{R}^d it is given by the sum of second derivatives. I will discuss how we can formulate an analogous operator for functions defined on fractals using Kigami's method. I will focus on the case of quadratic Julia Sets (which I will define during the talk).

The only assumed knowledge is calculus and complex numbers.