

## **Mating habits of polynomials**

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Given two suitable complex polynomial maps, one can construct a new dynamical system by mating the polynomials; that is, by "gluing" the polynomials together in a dynamically meaningful way. In this talk, we focus on quadratic polynomials -- we begin with a brief discussion of parameter space for quadratic polynomials (where the Mandelbrot set lives), we then define the mating of two quadratic polynomials, and finally we explore examples where the mating does exist, and examples where it does not. There will be many pictures and movies in this talk.