Eko Hironaka

Research Member
Complex Dynamics Program

Florida State University
(Faculty member 1997-2016, currently Professor Emerita)

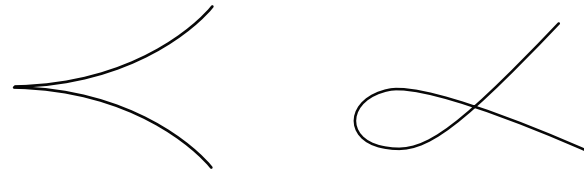American Mathematical Society, Book Program

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MSRI 318

Algebraic geometry, geometric topology, dynamical systems

Moduli spaces

Zariski (1930s) —plane curves with singularities

Used topology: branched coverings, fundamental groups

w/Koch — quadratic rational maps

$\widetilde{\mathrm{Per}_n(0)}$ can be disconnected

W. Thurston — $S_g \xrightarrow{f} S_g$

pseudo-Anosov mapping classes, train tracks fibered face theory

Is there an analog for CF rational maps?

Goal at MSRI: Talk to people about overlapping ideas and further expand my horizons!