
Geometric Partial Differential Equations
Équations différentielles partielles géométriques
(Org: **Siyuan Lu** and/et **Yi-Lin Tsai** (McMaster University))

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Singularities of mean curvature flow in $\mathbb{R}^4$

I will first survey the theory of mean curvature flow through singularities in $\mathbb{R}^3$. Then, I will discuss our recent classification of all noncollapsed singularities in $\mathbb{R}^4$. This is joint work with Kyeongsu Choi.

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viscosity solution to complex Hessian quotient equation.

We prove the existence of viscosity solutions to complex Hessian equations on compact Hermitian manifolds, assuming the existence of a strict subsolution in the viscosity sense. The results cover the complex Hessian quotient equations. This generalizes our previous results, where the equation must satisfy a determinant domination condition. This is a joint work with Prof. Jingrui Cheng.