

## **abstract**

GEOMETRIC PDE SEMINAR

Topic:

Speaker:

Affiliation:

Date:

Time/Room:

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We study a class of fully nonlinear metric flow on K\"ahler manifolds, which includes the J-flow as a special case. We provide a sufficient and necessary condition for the long time convergence of the flow, generalizing the result of Song-Weinkove. As a consequence, under the given condition, we solved the corresponding Euler equation, which is fully nonlinear of Monge-Amp\`ere type. As an application, we also discuss a complex Monge-Amp\`ere type equation including terms of mixed degrees, which was first studied by Chen. This is a joint work with M. Lai and X. Ma.