Sebastien Picard

G2 flows and parabolic complex Monge-Ampere equations

We will discuss how nonconcave parabolic complex Monge-Ampere equations arise in the context of G2 geometry. Estimates for these general Monge-Ampere flows can be used to provide examples of the G2 flow which exist for all time and converge to a torsion-free G2 structure. This talk will survey joint works with X.-W. Zhang and C. Suan.