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**The Kähler-Ricci flow on manifolds with positive first Chern class**

I will discuss the behavior of the Kähler-Ricci flow under stability conditions. I will describe analytic criteria for the Kähler-Ricci flow and modified Kähler-Ricci flow to converge to a Kähler-Einstein metric or Kähler-Ricci soliton. This is a joint work with D.H. Phong, Jian Song and Jacob Sturm.