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Complete solutions to Kahler Ricci flow on quasi-projective varieties.

ABSTRACT: In this talk I will discuss the existence of complete non-compact solutions to the Kahler Ricci flow on quasi projective varieties M emerging from zero Lelong number currents on the underlying compact manifold. The discussion will include complete solutions to the flow emerging from complete initial metrics with unbounded curvature, and also “instantaneously complete” solutions. Special attention will be given to cusp like metrics and solutions. A Kahler metric g is called cusp-like on M if it is equivalent to the standard hyperbolic punctured disc model in complex directions approaching D . The talk will be based on joint work with Liangming Shen and Ka Fai Li.