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*On general inverse  $\sigma_k$  flow.*

I shall first introduce the general inverse  $\sigma_k$  flow which is a generalization of J-flow. Then I will focus on two types of convergence results. The first one is complete description of the convergence behavior on Kähler manifolds admitting metrics of Calabi ansatz. The second one is a boundary case for J-flow. Part of the work is joint with Hao Fang, Jian Song and Ben Weinkove. (Received August 13, 2012)