## 1114-53-143 Gang Liu\* (gangliu@berkeley.edu). On the limit of Kähler manifolds with Ricci curvature lower bound.

Let X be the Gromov-Hausdorff limit of a sequence of pointed complete Kähler manifolds  $(M_i^n, p_i)$  with  $Ric(M_i) \ge -(n-1)$  and noncollapsed volume. We prove that, there exists a Lie group isomorphic to R, acting isometrically, on the tangent cone at each point of X. Moreover, the action is locally free on the cross section. This can be regarded as a generalization of Cheeger-Colding's metric cone theorem to the Kähler case. We also discuss some applications to complete Kähler manifolds with nonnegative bisectional curvature. (Received August 22, 2015)