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Supremum of Perelman's entropy and Kähler-Ricci flow on a Fano manifold

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In this paper, we extend the method in [TZhu5] to study the energy level \$L (\cdot)\$ of Perelman's entropy \$\lambda(\cdot)\$ for K\"ahler-Ricci flow on a Fano manifold. Consequently, we first compute the supremum of \$\lambda (\cdot)\$ in K\"ahler class \$2\pi c_1(M)\$ under an assumption that the modified Mabuchi's K-energy \$\mu(\cdot)\$ defined in [TZhu2] is bounded from below. Secondly, we give an alternative proof to the main theorem about the convergence of K\"ahler-Ricci flow in [TZhu3].

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