SOME RESULTS ON GRADIENT RICCI SOLITON

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Abstract: In this talk, we will consider Ricci soliton. The first result is the classification of kahler shrinking gradient Ricci soliton with nonnegative bisectional curvature, which is joint with Prof Shijin Zhang. Then I focus on the splitting results for soliton. If the integral of Ricci curvature along the geodesic line is nonnegative, then the splitting result hold for shrinking soliton. Under some weak pinching condition on the Ricci curvature, we obtain the shrinking soliton has only one end. Similar results hold for expanding soliton.