Revisiting Li-Yau type inequalities on Riemannian manifolds

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摘要： Li-Yau inequality is discovered by Li and Yau in 1986, it has tremendous impact in the field of geometric analysis, heat kernel analysis, etc. Since then, there are lots of generalizations and improvements for this kind inequality. In this talk, we revisit Li-Yau type inequalities on Riemannian manifolds. First we will review some related works, then we state the new results which generalize the classic Li-Yau inequality, Davies's result, Hamilton's gradient estimate, Li-Xu's result......