Bilateral Hardy-type inequalities and application to geometry

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October 22, 2012

Abstract: The talk starts with a short review on the original Hardy's inequality. Then we introduce the progress on Hardy-type inequalities including a short review on the developing history plus a short proof for a new result. Finally, we illustrate briefly an application of the inequalities to the estimates of the first nontrivial eigenvalue of Laplacian in Riemannian geometry.

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