

ON WEIGHTED EXTENSIONS OF CARLEMAN'S INEQUALITY AND HARDY'S INEQUALITY

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Abstract. Recently K. S. Kedlaya gives a weighted extension of Carleman's inequality under a certain weight condition. However this condition is not essential. In fact we show that the Kedlaya type extension holds without the weight condition by considering a certain weighted extension of Hardy's inequality. Moreover we shall consider the other weighted extension of Carleman's inequality.

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