MIXED MEANS AND HARDY’S INEQUALITY

A. ŠIČMEŠIJA AND J. PEČARIČ

Abstract. Integral means of arbitrary order, with power weights, and their companion means are introduced and related mixed-means inequalities are derived. These results are then used in proving inequalities of Hardy and Levin-Cochran-Lee type. Also, new proofs of Hardy and Carleman inequality for finite and infinite series are given by using discrete mixed-means.

Key words and phrases: Mixed-means, Hardy inequality, Levin-Cochran-Lee inequality, Carleman inequality.

REFERENCES

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