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GENERALIZATIONS OF FATOU'S AND MARCINKIEWICZ'S RESULTS

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Abstract. Two new criteria for almost everywhere, uniform, and L^1-convergence of Fourier series are established. The first one is a Tauberian result for $(C,1)$ summability, which generalizes a result of Fatou. The second one is a norm analogue of Dini's test, which generalizes a result of Marcinkiewicz. It is also pointed out that our second result is not comparable with the Dini-Lipschitz test.

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