



INTERNATIONAL CONFERENCE on RECENT ADVANCES in
PURE AND APPLIED MATHEMATICS (ICRAPAM 2015)
3-6 June 2015, Istanbul Commerce University,
ISTANBUL, TURKEY www.icrapam.org

Asymptotically I_2 -Lacunary Statistical Equivalence of Double Sequences of Sets

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Abstract: In this paper, we introduce the concepts of Wijsman I_2 -asymptotically statistical equivalence, Wijsman strongly I_2 -asymptotically lacunary equivalence and Wijsman I_2 -asymptotically lacunary statistical equivalence of double sequences of sets and investigate the relationship between them.

Keywords: Statistical convergence, Lacunary sequence, I_2 -convergence, Asymptotically equivalence, Double sequence of sets, Wijsman convergence.