THE ASYMPTOTIC AGGREGATION PROBLEM
AND THE MACRODESCRIPTION OF HIGH
DIMENSIONAL SYSTEMS

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Received September 29, 2004; revised March 30, 2005

Abstract. In this paper, the aggregation problem for high dimensional systems is studied in a different point of view. The deviations occurring when macro-descriptions are built and evaluated statistically. The systems asymptotic ideal with the aggregation is studied in this sense. Also for some classes of matrices the leading eigenvalues and norms have been taken as aggregate and aggregation is studied in this sense (errors are evaluated statistically).

Key words: High dimensional systems, asymptotic aggregation, macro-description, Cobb-Douglas function, norms and leading eigenvalues of matrices