

A REPRESENTATION OF DISTRIBUTIONS
FROM CERTAIN CLASSES L_S^{id}

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Abstract: In this paper we define classes L_S^{id} of certain infinitely divisible measures on the real line. We get a representation of the characteristic functions of distributions from certain classes L_S^{id} . The method of our proof, stimulated by results of Urbanik [5] consists in finding the extreme points of a certain convex set formed by Khintchine measures of distributions from L_S^{id} . Once the extreme points are found, one can apply Choquet's theorem on representation of the points of a compact convex set as barycenters of the extreme points ([4], p. 19). From Choquet's uniqueness theorem for a metrizable space X we obtain the uniqueness of representation ([41], p. 70).

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