Abstract: We define and study the sign-symmetric Dirichlet-type and Liouville-type distributions on $n$-dimensional space. We give a complete stochastic representation for infinite sequences of random variables $\{X_n : n \in N\}$ with the property that for every $n \in N$ the random vector $(X_1, \ldots, X_n)$ has a sign-symmetric Liouville-type distribution.

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The full text is available here.