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Perturbation of Symmetry in Non-Standard Settings

In the last 12-15 years, a great deal of work has been dedicated to the study of so-called 'skew-symmetric distributions'. These are obtained starting from a symmetric 'base' density via a simple mechanism of perturbation which conceptually involves another continuous distribution. The talk describes briefly various extensions of the common setting of this construction. Firstly the support does not need to be the d -dimensional Euclidean space. A more radical extension replaces the requirement of symmetry by a suitable form of generalized symmetry. Moreover, under certain conditions, the constructive mechanism can also be applied to discrete distributions.