1 $\mathbb{Z}_2$-graded symmetry classes of tensors

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In this paper, we define a natural $\mathbb{Z}_2$-gradation on the symmetry class of tensors $V_\chi(G)$. We give the dimensions of *even* and *odd* parts of this gradation. Also we prove that the even part (the odd part) of this gradation is zero, if and only if the whole symmetry class is zero.