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Parity-odd Anomalies and CFT correlators in momentum-space

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Conformal symmetry imposes strong constraints on correlation functions. Indeed, the general structure of 2 and 3-point functions is completely fixed up to a few constants by such symmetry. These results are usually obtained in position space in contrast with general QFT where Feynman diagrams are typically computed in momentum space. I will discuss how conformal symmetry completely determines correlators that are specifically affected by parity-odd anomalies in momentum-space. One of the main reasons for studying CFTs in momentum space is to see the effects of anomalies more directly. I will focus in particular on the role of the chiral, gravitational and conformal anomalies. This study has applications ranging from condensed matter theory to holography and cosmology.

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