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The Study of chiral vortical effect in spherical coordinate system

We study the chiral vortices in spherical coordinates. In our work, we mainly study the axial vector flow under the zero chemical potential. For the case of zero mass, we get the same result as others in the cylindrical coordinate system. At the same time, we also get the same result by using the dimension normalization method. In addition, we calculate the axial vector flow with mass, and when the mass approaches zero, the result returns to the massless case.

Topics

Other related physics

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