

Non-Abelian Chiral Kinetic Theory

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We derive the chiral kinetic equation in non-Abelian gauge field with consistent semiclassical expansion. Within new expansion scheme, we disentangle the Wigner equations up the second order and find that Wigner equations do not lead to constraint equations. We integrate the covariant chiral kinetic equations in eight-dimensional phase space and obtain the chiral kinetic equations in seven-dimensional phase space.

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