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The perturbed density particle profile due to electromagnetic turbulence with nonzero $k_{\|}$

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Abstract

Approximate linearized solution to the drift kinetic equation provide the perturbed distribution function which is used to evaluate the perturbed density particle profile in plasma with electromagnetic turbulence. A special attention is paid to the terms containing the parallel number vector $k_{\|}$. A number of pinch-like terms can be identified depending on the fluctuating vector potential.