

Numerical approximation of 3D magnetized Vlasov equation with moment methods

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Moment methods for the approximation of Vlasov equations regain a lot of interest, in particular with Hermite polynomials which reveal particularly adapted to Gaussian profiles. However the application of moment methods to

Vlasov equation with a non constant strong 3D forcing magnetic field is less evident. We will review the recent advances made within the MUFFIN project.

Presenter: DESPRES, Bruno