

Conservative cascade schemes for Vlasov type equations

jeudi 10 octobre 2024 09:50 (45 minutes)

The conservative cascade method permits to replace a complex multi-dimensionnal conservative remapping with a sequence ("cascade") of 1D conservative remappings. It shares some features with splitting schemes (in particular the 1D feature permits to ease the parallelization), but it has also some differences, as it remains based on multi-dimensionnal characteristics, which can be more convenient in some situations. We will here present and apply such a cascade method in the context of Vlasov type equations.

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