Magnetohydrodynamic models using multispecies computations in Non-Local Thermodynamic Equilibrium: The case of Hydrogen and Helium.

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Abstract:

This work introduces the theoretical approximation for computing a Magnetohydrodynamical system in 3D geometry using Non-Local Thermodynamic Equilibrium to calculate Hydrogen and Helium. Furthermore, we coupled Pakal and Newtonian Cafe model, two codes developed in C using MPI and Cactus framework.

References:

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