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THE GRAVITATION TWO-STREAM INSTABILITY IN A 2-D PHASE SPACE. *Karine F. Magnago, Paulo R. de A. Zingano.* (Departamento de Matemática Pura e Aplicada, Instituto de Matemática, UFRGS).

In this work, the gravitational 2-stream instability in phase space is investigated numerically using an upwind Godunov-like finite difference scheme. The multi-dimensional computation is done using a dimension Strang splitting to achieve higher accuracy. (CNPq).