

Low Velocity Flows



ID de Contribution: 13

Type: Non spécifié

Low-velocity scheme for hyperbolic conservation laws with constrains

vendredi 6 novembre 2015 11:45 (45 minutes)

This talk is devoted to the numerical approximation of first order conservation laws under constraints. The proposed strategy is based on a relaxation of the constraints in order to get a system of hyperbolic conservation laws.

However, the new system have to be considerate at the limit of the relaxation parameter goes to zero to ensure the (formal) consistency with the initial model.

We will explain how this limit is analogous to a low-Mach asymptotic and we will propose several examples and illustrations.

Orateur: PARISOT, Martin (ANGE, Inria Paris Rocquencourt)