

Abstract Submitted
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1 D analysis of Radiative Shock damping by lateral radiative losses MICHEL BUSQUET¹, Observatoire de Paris-LERMA, (Meudon, France), EDOUARD AUDIT, CEA-DSM — We have demonstrated the effect of the lateral radiative losses in radiative shocks propagative in layered quasi-planar atmospheres.[1,2] The damping of the precursor is sensitive to the fraction of self-emitted radiation reflected by the walls (called albedo) We have given recently an experimental determination of the wall albedo.[2] For parametric analysis of this effect, we implement lateral losses in the 1D hydro-rad code MULTI [3] and compared results with 2D simulations.

[1] S.Leygnac, et al., Phys. Plasmas **13**, 113301 (2006)

[2] M.Busquet, et al, High Energy Density Plasmas **3**, 8-11 (2007); M.Gonzalez, et al, Laser Part. Beams **24**, 1-6 (2006)

[3] Ramis et al, Comp. Phys. Comm., **49**, 475 (1988)

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