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Very Low velocity Ion Slowing Down in Binary Ionic Mixtures PATRICE FROMY, CRI UParis XI, BEKBOLAT TASHEV, Physics KazNu, CLAUDE DEUTSCH, LPGP UParis Xi, VERYLIVSD COLLABORATION — Binary ionic mixtures (BIM) in dense and hot plasmas of specific concern for inertial confinement fusion (ICF) and white dwarf crust are considered as targets for incoming light ions with a velocity smaller than thermal electron one in target. The given BIM formalism worked out within a dielectric approach [1] is specifically investigated in terms of charge-and mass-asymmetry in the target BIM components. Results are scanned w.r.t density, temperature and relative BIM composition as well. A certain attention is paid to the so-called critical regime when target electron stopping equals the target ion contribution.

[1] B.Tashev et al, Phys.Plasmas 15,102701(2008) and NIMA 606,218(2009)

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