Abstract Submitted
for the DPP09 Meeting of
The American Physical Society

Multiple Scattering of Slow Ions in a Partially Degenerate Electron Fluid ROMAIN POPOFF, GILLES MAYNARD, CLAUDE DEUTSCH, LPGP UParis XI, MULSCATT COLLABORATION — We extend former investigations to a partially degenerate electron fluid at any temperature of multiple slow ion scattering at $T=0$. We implement an analytic and mean-field interpolation of the target electron dielectric function between $T=0$ (Lindhard) and $T\to\infty$ (Fried-Conte). A specific attention is given to multiple scattering of proton projectiles in the keV energy range stopped in a hot electron plasma at solid density.

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Date submitted: 07 Jul 2009

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