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Partial degeneracy effects in the stopping of relativistic electrons in supercompressed DT fuels KONSTANTIN STARIKOV, KazNu Almaty, CLAUDE DEUTSCH, LPGP UParis XI, STARIKOV COLLABORATION — The effects of supercompressed and partially degenerate electron fluid on projectile energy loss of femtolaser Produced relativistic electrons (REB) in the MeV energy range are investigated. Partial degeneracy is shown to effect Significantly the REB stopping power for $0.2 < \Theta = T/T_f < 1$ while its variations with beam energy appear much less Θ -dependent. The latter exhibit a characteristic V-like shape at any target electron density and Θ value.

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