

Relativistic models for electron and neutrino-nucleus scattering

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Relativistic models of electron and neutrino-nucleus scattering in the quasielastic region are presented and compared. For inclusive processes the numerical results obtained with different approaches to describe final-state interactions, in particular the Relativistic Green's Function and the Relativistic Mean Field approaches, are compared. The scaling properties of the different models are also investigated. The scaling functions obtained in the different models for different kinematics are compared with the experimental scaling function extracted from the analysis of (e,e') data.

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