

Fission dynamics with microscopic level-densities

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Presentation of fission dynamics in the recently developed framework where microscopic level densities are combined with the Metropolis walk method. This method is used to describe neutron induced fission and predict how the resulting fission fragment mass distributions depend on the energy of the incoming neutron. The method is extended to allow predictions of how the available excitation energy is shared between heavy and light fragments. From the excitation energy distributions one can deduce how many new neutrons that will be emitted following fission.

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