

Stellar Neutron Sources -an interplay between quantum coupling and shell mixing

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This talk will discuss stellar neutron sources for the slow neutron capture or s-process. Neutrons are being produced in the highly dynamic environment of intershell mixing in low mass AGB stars and in the dying moment of massive red giant stars. So far the impact of neutron poisons on neutron production has been largely ignored, but will be highlighted in this presentation, which is based on the analysis of new nuclear reaction data.