

## **Phenomenological study of fission yield for U233 induced by neutrons below 20 MeV**

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The fission fragment mass distribution and the yield - energy dependence for U233 fission induced by neutron are of importance in the study of the Th/U fuel cycle. In this work, a semi-empirical method which includes the excitation energy dependent influence of nuclear shell effects, was adopted to study the yield mass distribution in the incident neutron energy below 20 MeV. This model was based on the multi channel fission and introduced 10 parameters which were determined by adjusting to the measured cumulative yields. The results showed it could well describe the fission fragment yield and yield-energy dependence for parts of fragments.

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