

The improved evaluation of the n+16O system

Wednesday 19 November 2025 14:00 (1 hour)

In recent years, the improved global fitting of the Reduced R-Matrix theory for n+16O system has been carried out using the RAC. The cross sections for the $^{16}\text{O}(\text{n}, \alpha)^{13}\text{C}$ reaction in the 6.8-11.7 MeV neutron energy region have been measured recently, which have been added into the fitting. In addition, the measured data for the $^{16}\text{O}(\text{n}, \alpha)^{13}\text{C}$ reaction of Lee et al. have been also added into the fitting. The evaluation of the $^{16}\text{O}(\text{n}, \alpha)^{13}\text{C}$ reaction have been improved.

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