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Improved evaluation of the 17O system

Wednesday, 29 November 2023 15:00 (45 minutes)

What we would like to present in this meeting are the results of the latest evaluation of the ¹⁷O system. In the calculation of the RAC program, we have added several new sets of integral cross section data and differential cross section data for the ¹³C(α,n)¹⁶O reaction on the basis of the original data. The newly added data also include the latest measurements by the Peking University. The newly added data are shown below:
Integral cross section
1.P.S.Prusachenko+ 2022
2.G.F.Cian+ 2021
3.B.Gao+ 2022
Differential cross section
1.M.Febbraro+ 2020
2.E.M.Gazeeva+ 2020
3.P.S.Prusachenko+ 2022
We are still in the process of adjusting the parameters in the RAC program calculations based on the latest added data to get a better result. We will present the latest fitting results at the meeting.

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