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Re-evaluation of the 22Ne+alpha reaction rates

Thursday, 22 February 2024 17:00 (30 minutes)

There has been a large amount of new nuclear data on the 26Mg compound system, some of which we will discuss at this workshop. Combining these data into reaction rates requires dedicated work to combine the different data, resolve discrepancies and provide updated estimates with, if possible, well-motivated uncertainties. In this talk, I will discuss some of the indirect measurements which went into the ChETEC 22Ne+alpha evaluation published in 2021 (Physical Review C 103 015805). In addition, I will identify the current largest contributors to the uncertainties in the 22Ne+alpha reaction rates with some recommendations for future experimental and theoretical efforts, as well as possible inconsistencies between past datasets which could be revisited to try to improve the situation.

Presenter: Dr ADSLEY, Philip (IPN Orsay)

Session Classification: Weak s process