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## ABSTRACT

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### Statistical Model Rates in Astrophysics

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Statistical model reaction rates make up the vast majority of nuclear reaction rates used in astrophysical model calculations of the r-, i-, rp-, nup-, and p-processes, as well as advanced explosive stellar burning stages and accreting neutron star crusts. I will review the needs for more accurate rates and quantification of uncertainties in statistical model calculations for astrophysical applications.