

## Improved Rate Calculations for Low Mass Reactions

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Experimentally measured stellar reaction rates are crucial for a proper description of the nuclear burning processes which occur in stellar, big bang, and supernovae environments to name a few. Improved measurements of low energy cross sections have led to a much better understanding of these rates for a wide variety of low mass reaction. However, standardized uncertainty calculations of these rates have not been widely implemented. This talk will discuss the broader issue of determining more accurate and precise cross sections for low mass nuclei, and a technique will be presented for determining accurate uncertainties for the corresponding reaction rates.