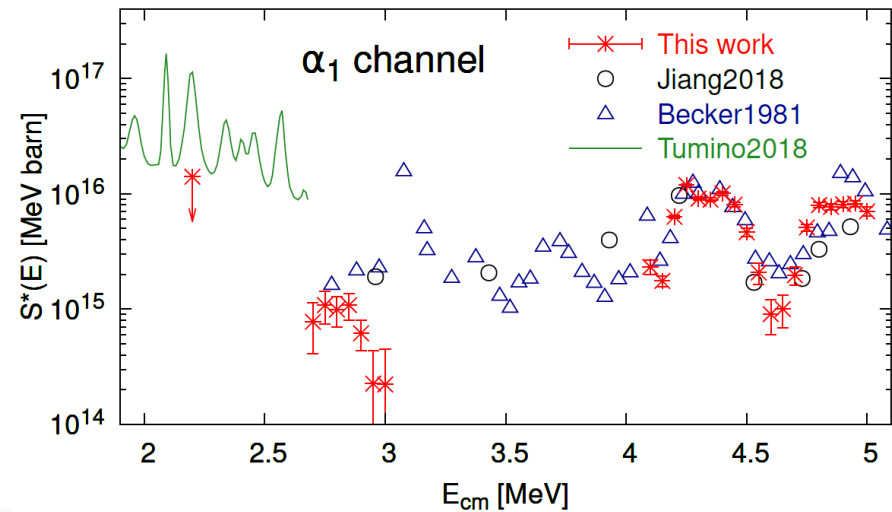
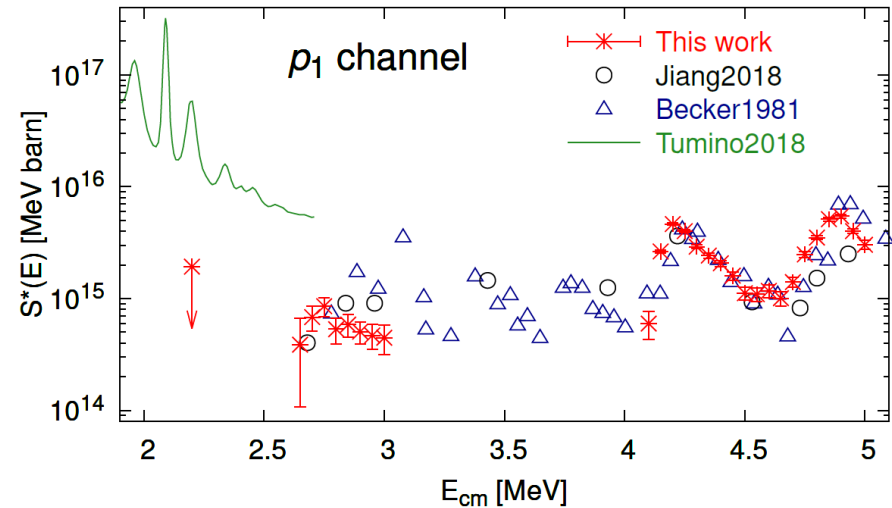


New Measurement of $^{12}\text{C}+^{12}\text{C}$ Fusion Reaction at Astrophysical Energies



$^{12}\text{C}+^{12}\text{C}$ fusion is important for understanding the late phases of stellar evolution as well as the ignition and nucleosynthesis in cataclysmic binary systems such as type Ia supernovae and x-ray superbursts. A new measurement of this reaction has been performed at the University of Notre Dame using particle-coincidence techniques with SAND (a silicon detector array) at the high-intensity 5U Pelletron accelerator. Our new results show strong disagreement with a recent measurement using the indirect Trojan Horse method.



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