

Improving predictions from nova models through nuclear physics measurements

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Classical nova explosions are unique in nuclear astrophysics because most of the thermonuclear reaction rates thought to be involved in these phenomena are constrained by experimental measurements. This situation allows for rather precise statements to be made about which measurements are still necessary to improve the nuclear physics input to astrophysical models. We review desired measurements in these environments with an emphasis on recent experimental progress made to better determine key rates.