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Resonance excitation in 7Be + d reaction to study 7Li abundance anomaly

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A nuclear physics solution is searched to resolve the 7Li abundance anomaly in the cosmos. The enhancement of nuclear reaction rates by nuclear resonances plays a vital role in nuclear astrophysics. The existing contradiction between theory and observation demands more study on the resonances in 7Be(d,d) and 7Be(d,p) reactions, before invoking physics beyond the standard Big Bang Nucleosynthesis.

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