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The cosmological lithium problem in the context of resonant enhancement

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The destruction of the ${}^7\text{Be}$ nucleus is immensely important in studying the ${}^7\text{Li}$ abundance anomaly. The relevant reaction rates, particularly the destruction of ${}^7\text{Be}$ through resonance excitation in the transfer reaction ${}^7\text{Be}(\text{d,p}){}^8\text{Be}^*$, need to be measured with better accuracy before one can invoke solutions beyond nuclear physics. The T-REX detector array is suitable for such measurements. An experiment to that effect, IS 554 at HIE-ISOLDE, would be carried out. Preparation including simulation of that upcoming experiment will be presented.

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