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High-lying resonances in the ⁷Be + d reaction

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The experiment IS 554 was carried out at HIE-ISOLDE to study high-lying resonances in the ⁷Be + d reaction, in the context of the unsolved cosmological lithium problem. We utilized the scattering chamber at HIE-ISOLDE, with sets of DSSD covering an angular range of 8° - 170° . Resonance enhancement is one way to study the lithium abundance anomaly. The 16.63 MeV and other nearby resonance states in the ⁷Be(d,p)⁸Be* reaction have been identified and their decays are studied. I would discuss the results from the experiment.

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