

An Attempt to Determine the ^8Li Valence Neutron ANC via $^7\text{Li} (^8\text{Li}, ^7\text{Li}) ^8\text{Li}$

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Motivated by the desire to test isospin mirror symmetry and determine the astrophysical S factor for the $^7\text{Be}(p,\gamma)^8\text{B}$ reaction indirectly, we have carried out a measurement of the elastic transfer reaction $^7\text{Li} (^8\text{Li}, ^7\text{Li}) ^8\text{Li}$ at the ISAC facility of TRIUMF at two beam energies using highly segmented silicon detectors. Theoretical calculations, the experiment and preliminary results of the data analysis will be presented.