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Analysis of the total, Coulomb and nuclear breakups in 6,7 Li on 58 Ni and 208 Pb target masses

We use the Continuum Discretized Coupled Channels (CDCC) method to study the total,Coulomb and nuclear breakups in 6,7 Li on 58 Ni and 208 Pb target masses. The objective is to study whether the target charge can explain the importance of the Coulomb breakup cross sections over its nuclear breakup cross sections. Since this reaction is regarded as the
Coulomb dominant. We observed that the large charge alone can not explain the strong dominant of the Coulomb breakup cross sections in these reactions. Our findings indicate that the Coulomb breakup cross sections are larger than the nuclear breakup cross sections, due to large target charge.

Primary author: Dr NDALA, Lucas Vusi (University of South Africa)

Co-author: Prof. LEKALA, Mantile Leslie (University of South Africa)

Presenter: Dr NDALA, Lucas Vusi (University of South Africa)

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