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## Two-nucleon transfer in collisions with weakly bound projectiles

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Two-nucleon transfer reactions are powerful probes for investigating the properties of nuclear states, such as pairing correlations and single-particle characteristics. These properties are present in the matrix elements that govern the reaction dynamics. In particular, spectroscopic amplitudes –quantifying the single-particle or two-particle strength of specific wave function components –play a crucial role in describing the reaction mechanism. In this work, we analyze how the structure of weakly bound and halo nuclei influences the dynamics of two-nucleon transfer reactions. Special attention is given to collisions involving the projectiles  ${}^6\text{He}$ ,  ${}^6\text{Li}$  and  ${}^{11}\text{Li}$ .

### **Altas energias**

**Presenter:** Dr LEONARDO FERREIRA, Jonas (IFUFF)

**Session Classification:** Baixas Energias