

Speaker : R. Raabe

Deuteron emission from ^{11}Li : decay of the halo

Abstract

We studied the deuteron-emission channel in the beta decay of the short-living halo nucleus ^{11}Li using the post-accelerated beam produced at the ISAC facility in TRIUMF. After implantation in a finely segmented silicon detector, the events of interest were identified through time and position correlations between the implanted nuclei and the subsequent decays. The results support the picture of the decay taking place essentially in the halo of ^{11}Li and proceeding directly to the $^9\text{Li}+d$ continuum.