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## Observation of a Near-Threshold Proton Resonance in $^{11}\text{B}$

At the John D. Fox Superconducting Linear Accelerator Laboratory a near-threshold proton resonance in  $^{11}\text{B}$  at  $E_{\text{ex}} = 11.44 \pm 0.04$  MeV is observed via the reaction  $^{10}\text{Be}(d,n)^{11}\text{B} \rightarrow ^{10}\text{Be} + p$  in inverse kinematics, measured with a beam of the radioactive isotope  $^{10}\text{Be}$ . The resonance energy at  $E_{\text{c.m.}} = 211(40)$  keV is consistent with a proton signal observed by Ayyad et al. in the  $\beta$ -delayed proton decay of  $^{11}\text{Be}$ . By comparison to a DWBA calculation, a  $0.27(6)$  spectroscopic factor is extracted and a tentative ( $\ell = 0$ ) character is assigned for this resonance. The significant cross section in the proton-transfer (d,n) reaction as well as the observation of its proton-decay signal point to a threshold-resonance character of this state, as recently suggested by Oko lowicz et al. .

**Primary author:** LOPEZ-SAAVEDRA, Eilens (Florida State University)

**Presenter:** LOPEZ-SAAVEDRA, Eilens (Florida State University)

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