

NGen: neutron generator target design

Alex Chaney

TTU Physics and Chemical Engineering

Zach Chaney

TTU Physics and Mechanical Engineering

A source of neutrons can be used in a variety of ways to study and explore the world around us. Most economically and practically, a neutron source can be made by sending a proton beam into a target, with various interactions usable to produce neutrons. In our project, we explored the various target types and the effects that changing beam properties and target geometries has on the characteristics of the resulting neutron beam.