

Rutherford Scattering: a simple model

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In this presentation...

- Motivation behind the experiment
- Scattering theory
- Experimental setup
- Convolution model, fit to results
- Results, errors

Motivation

- Charge distribution in atom \rightarrow potential $V(r)$
- How to find out what's inside an atom?
 - Throw small objects at it!
- In early 1900s, two competing models:
 - Rutherford: small positive nucleus
 - Thomson: large, diffuse positive charge