

GADRAS

Gamma Detector Response Analysis Software

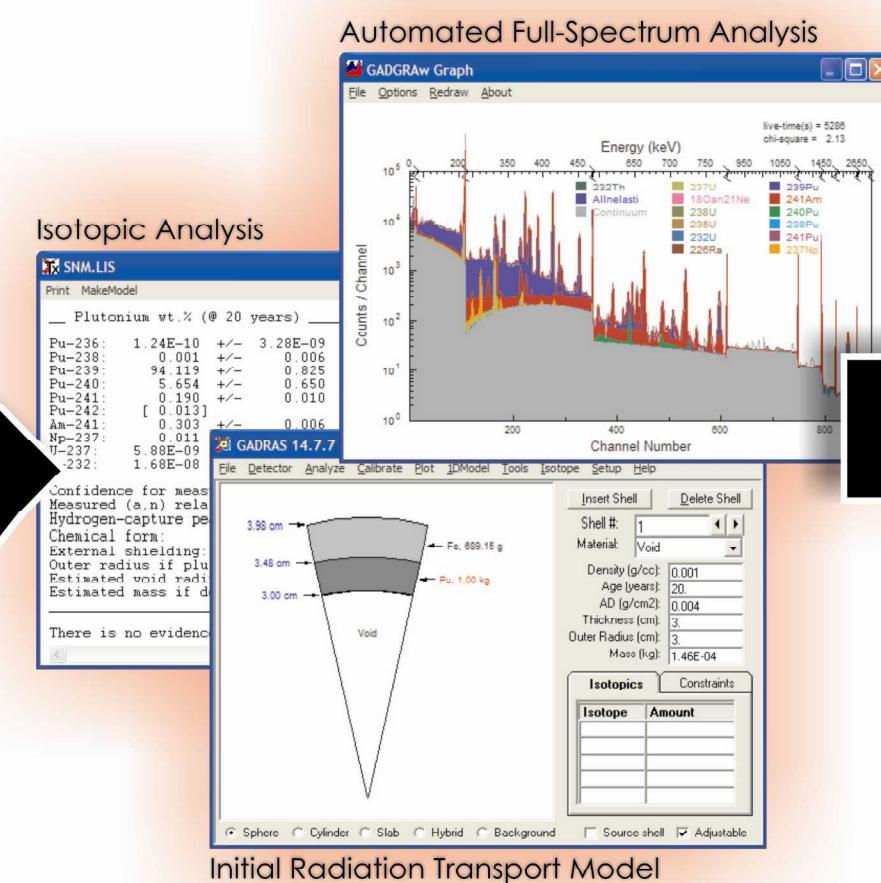
0 Data Acquisition

Measure Unknown Radiation Source



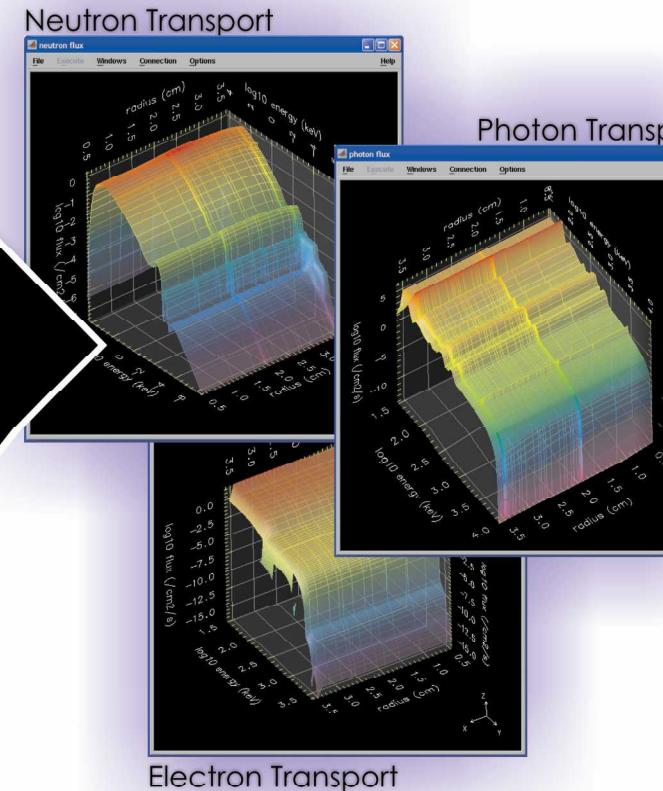
1 Initial Model

Assisted by Automated Analysis



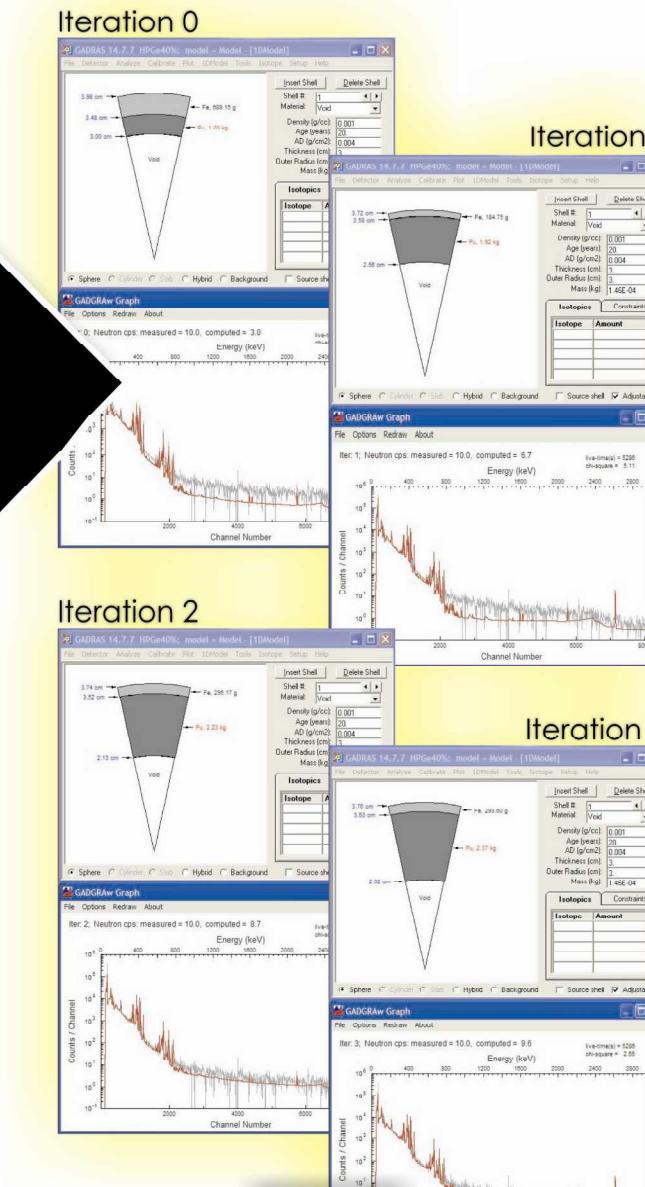
2 Radiation Transport

Predict Measured Signature



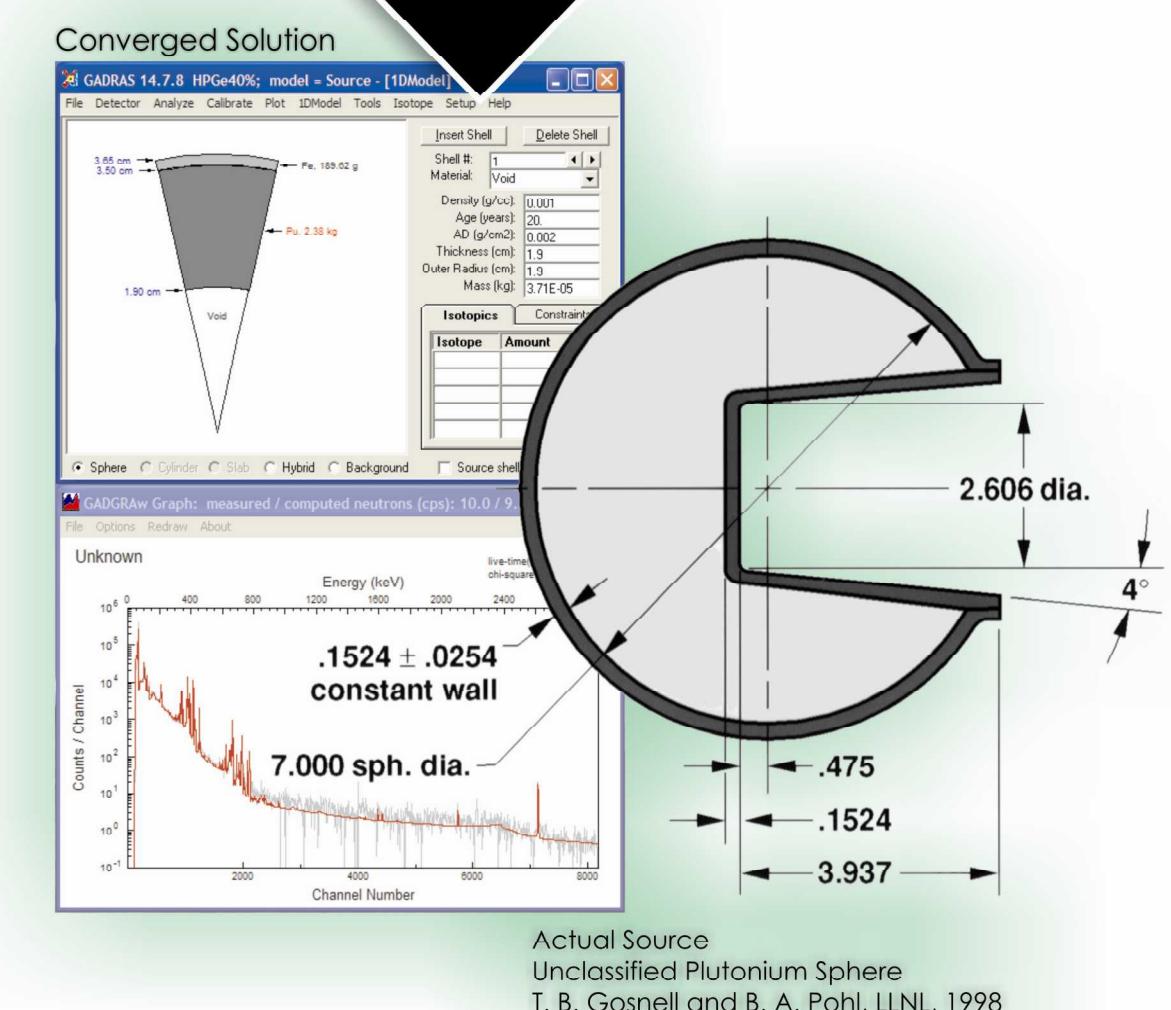
3 Iteration to Solution

Find Model that Matches Signature



Toolkit to

- **assess radiation source design from measured signatures**
- **use radiation transport and high-fidelity detector response modeling**
- **enable automated characterization of shielded SNM**



4 Final Assessment

Best Model that Matches Signature

