

# SAMMY Workshop

# Part 4

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Part 4, Data Analysis

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# Three requirements

## for analysis of neutron cross-section data in the resolved-resonance region

### 1. Formalism for calculation of cross section

Well understood – we've known how to do this since 1950's

### 2. Mathematical description of experimental effects

Impossible to do correctly! The best we can do is to make better-and-better approximations as time goes on.

### 3. Fitting procedure, including treatment of covariances

Reasonably well understood, but seldom done properly

## Three requirements, cont.

- **All three are included in SAMMY**
  - Formalism
  - Experimental effects
  - Fitting procedure
- **Each will be covered separately**
- **(SAMMY also includes many other features, not included in these “requirements”)**