

Production of Gamma-ray Spectral Libraries

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Introduction

- Libraries of predicted responses are the core of predictive simulation based non-linear operator inversion
 - State of the art in solving such problems
 - Any system involving differential operators
- There is no general prescription
- Progress requires clear goals and luck

Key Concepts

- Speed
 - Not critical when pre-calculation is an option
 - But still need to finish in lifetime?
- Accuracy
 - 101% of the challenge
 - Very deep discussion is possible
 - We want algorithms that provide at least 1st and 2nd central moments to support *sound decisions*