

# NJOY Outstanding Issues

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# Background

- Official NJOY updates are released with some delay
- Although NJOY author is responsive to users' requests, temporary patches are usually exchanged on a personal basis
- Very often, data processing is be done with local patches, developed at different laboratories, which may be:
  - Different/duplicated,
  - Sometimes contradictory.
- Comparing results from different laboratories gives rise to ambiguity (differences due to modelling or data processing)



# Objective

Maintain a set of temporary updates:

- publicly available
- uniquely traceable

The updates represent an interim solution until the official updates are released



# Objective (cont.)

This would serve to:

- Have reference set of updates for data processing available to everyone so that traceability of processed data would be achieved,
- Help the authors to implement the updates more quickly.



# Covariance processing

- Stability of covariance processing modules (ERRORR).
  - Enormous progress, but more experience is needed.
- Display: user-controlled font size for publication-quality plots.
- Add a digit to COVR output in BOXR format.
- After processing emission-energy spectra, the sum-rule might be violated.
  - Should NJOY do renormalisation internally? Before AND after processing?



# Future developments

NJOY-2008?

Past experience showed that new releases bring along problems.

- What strategy to adopt to minimise the impact? Maintain codes in parallel?
- Will NEA be able to distribute the code to experienced testers?

