Review and edition processes

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DDEP Training Workshop

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End of evaluation

You achieved a great amount of work – Congratulations!

Next step: send your evaluation to DDEP coordinator

- Comments file (report of the evaluation)
- Database from Saisinuc (Donnees.mdb)

DDEP coordinator will find a reviewer

→ Discussions between the evaluator and the reviewer will occur until reaching an agreement.

✓ Please keep the coordinator in the loop for traceability.

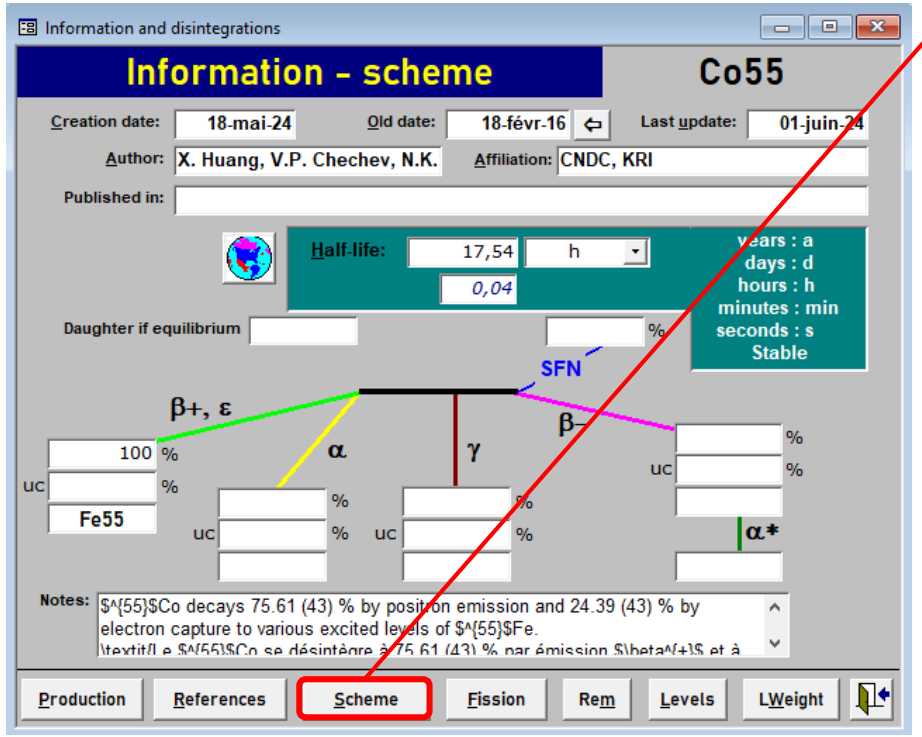
Report

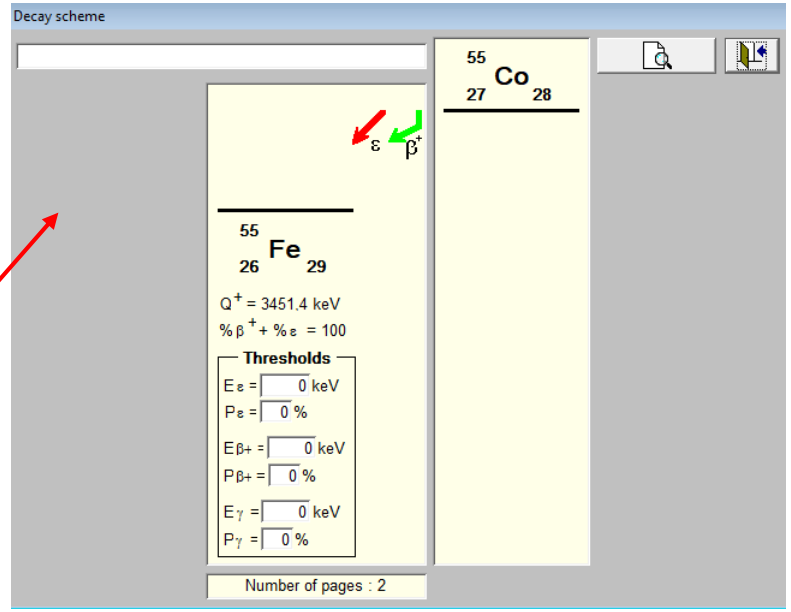
Structure of report depends on the evaluation. However, skeleton is basically the same.

1. **Author(s)**
2. **Decay scheme**
   - General comments
   - Recommendations of new measurements
3. **Nuclear data**
   - Q-value, half-life
   - $\alpha/\beta/\varepsilon$ transitions (energies, branching ratios)
   - γ transitions and internal conversion coefficients
4. **Atomic data**: Comparison between calculations and measurements
5. **Electron emissions**: Internal conversion, Auger
6. **Photon emissions**: X-rays, γ-rays (energies and intensities)
7. **Consistency**: total energy, decay scheme balance
8. **References**

Decay scheme

Directly generated within Saisinuc.





Decay scheme

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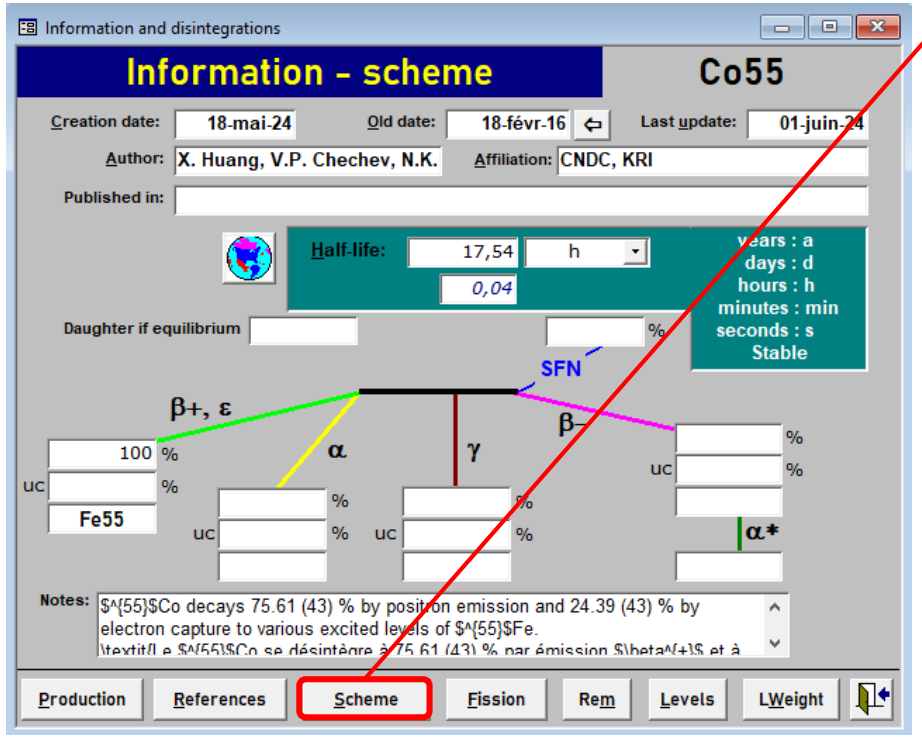

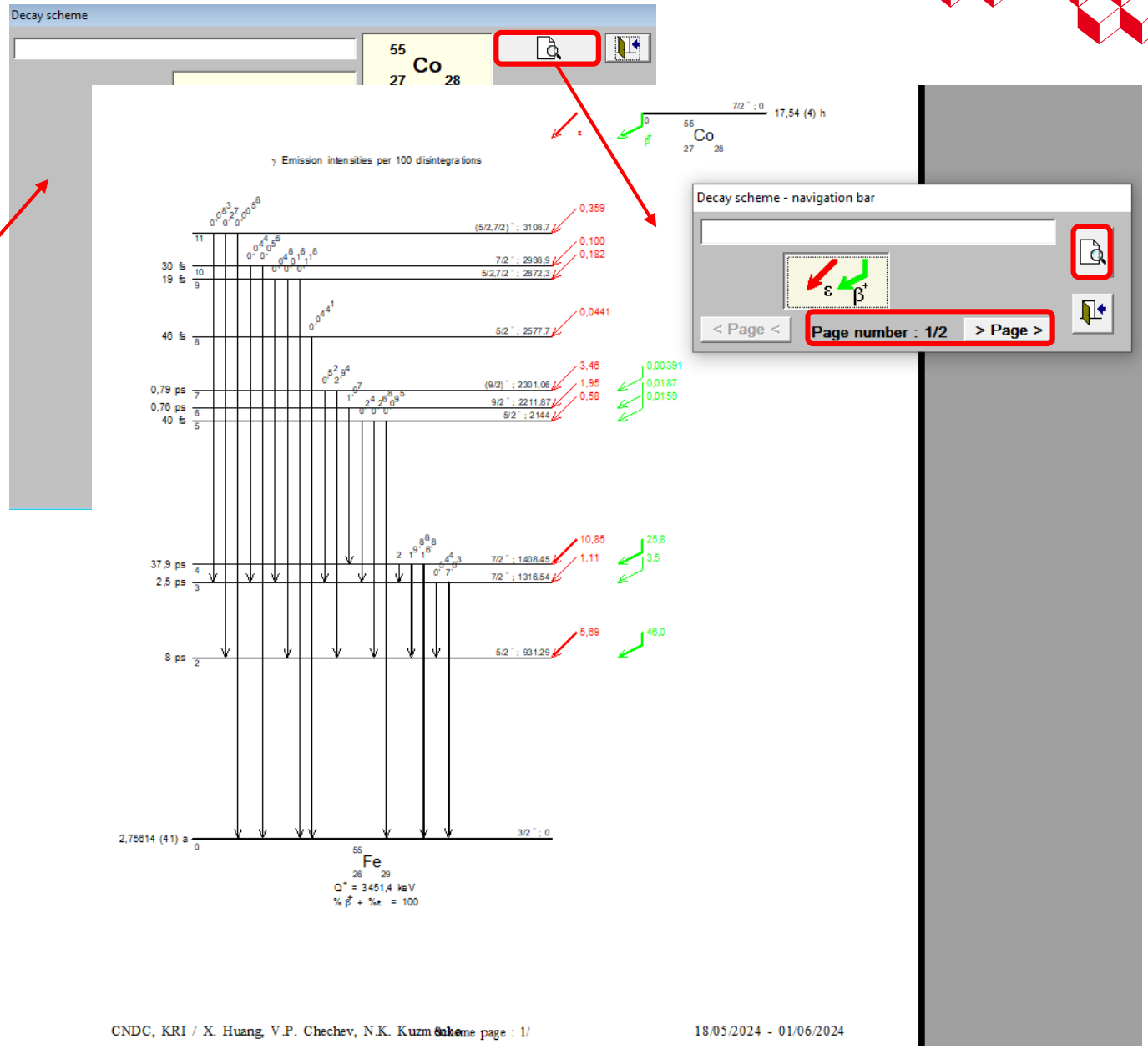

Decay scheme

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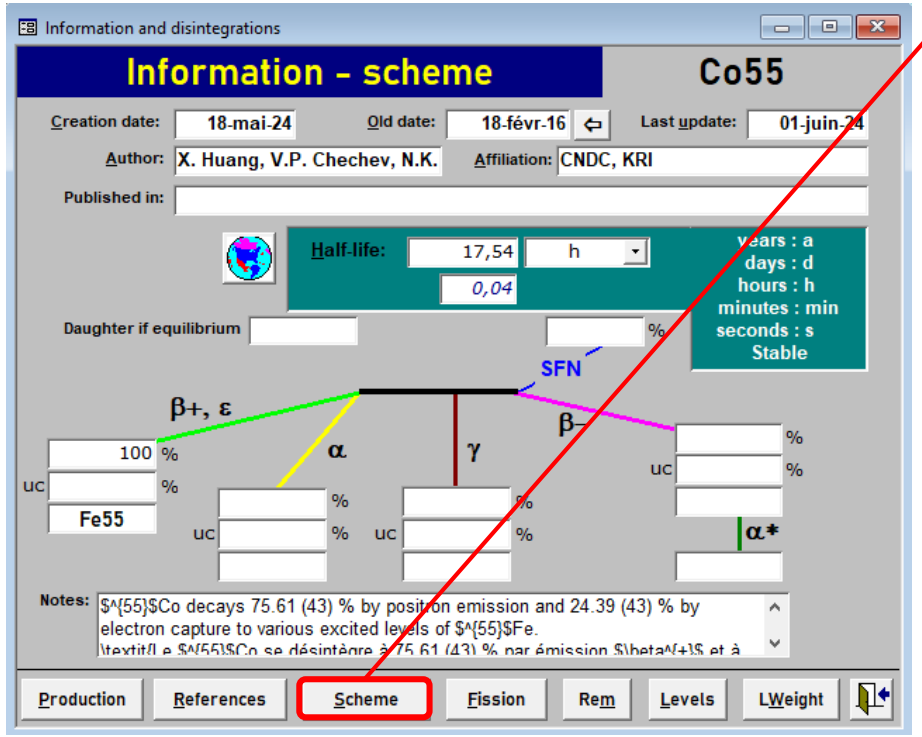
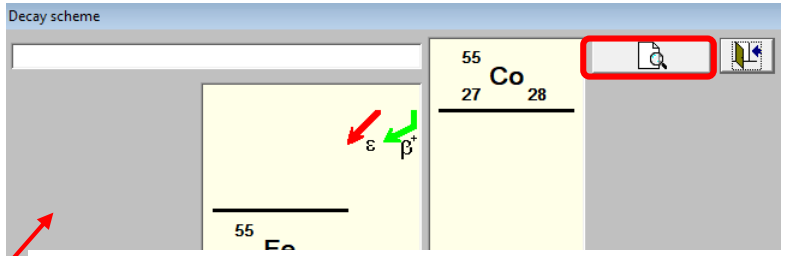
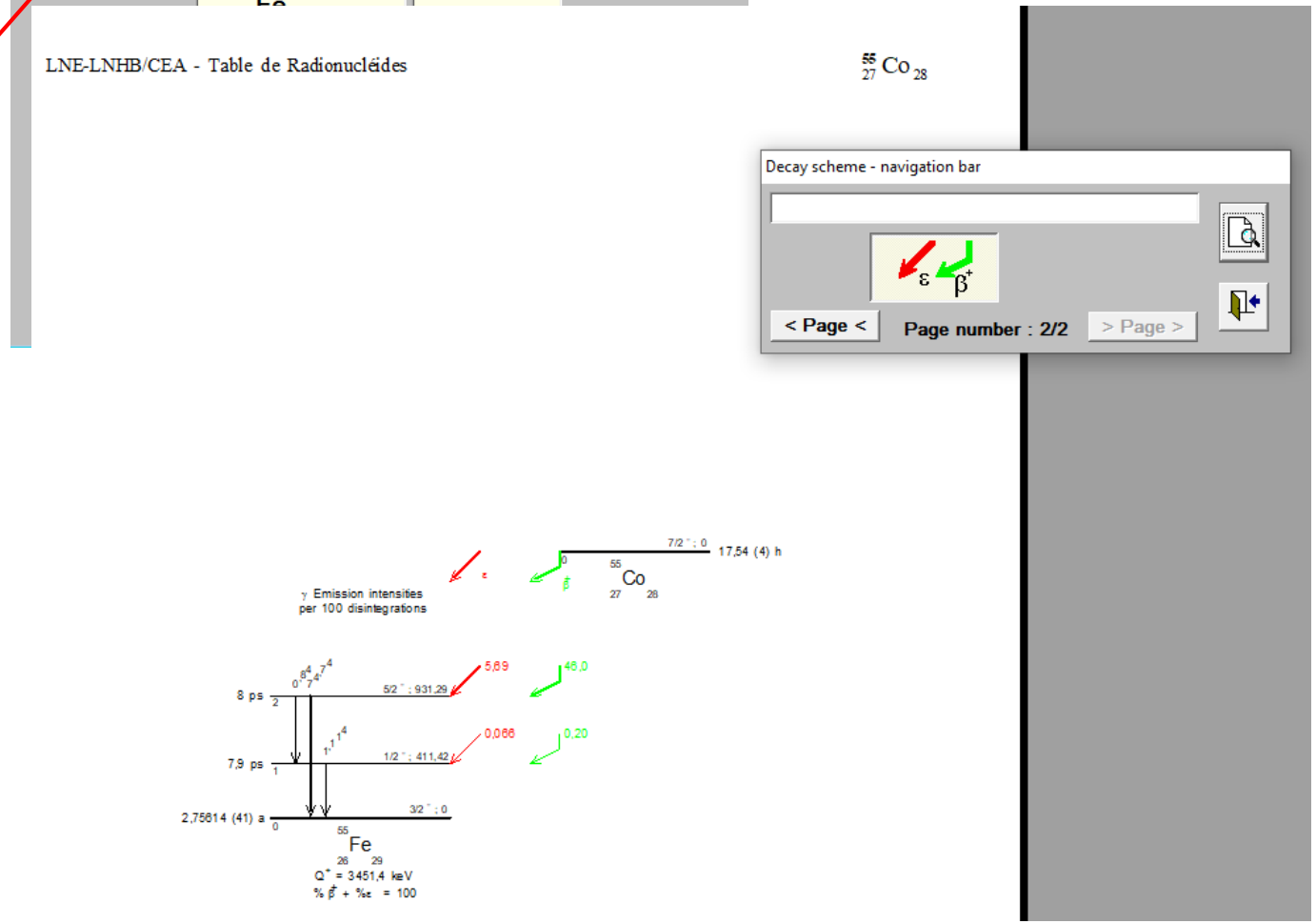






Creating the Tables

Separate tool that extracts information from the database
→ TBLPAPI
→ Creates many LaTeX files

Master LaTeX files generate the Tables
→ ELEMENTX.tex, MACRELM1.tex, MACRELM2.tex, MACRLAM1.tex

Many adjustments are often necessary to create nice Tables
→ Short explanations in decay scheme section.
→ Gamma transition table with internal conversion coefficients.
→ Atomic data and emissions.
→ Production modes.
→ References.

Next, Tables are sent to the evaluator and the reviewer
→ They help in the discussion to check what is entered in the database compared to the data given in the evaluation report.
→ They are one of the main way to provide the recommended values to the users eventually.

Publication

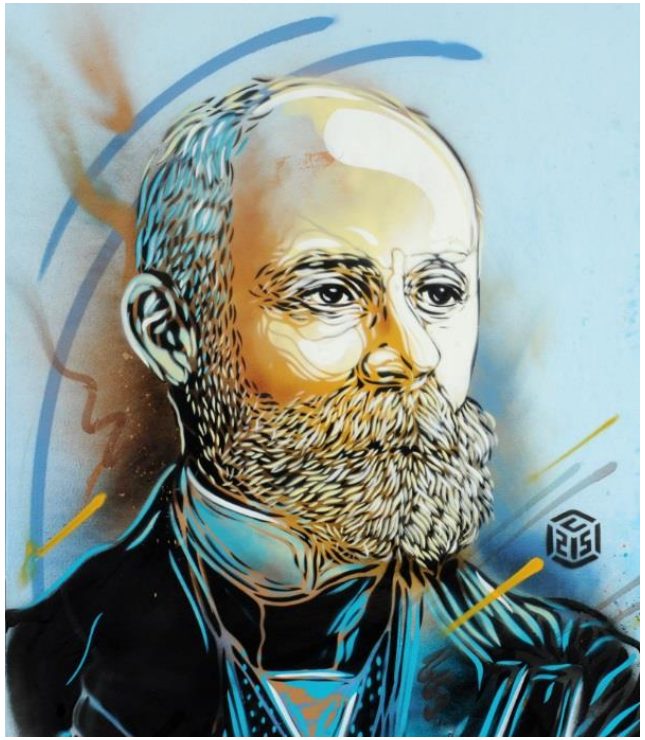
Once the evaluation is reviewed

1. Correcting typos and beautifying the report.
2. Generating the final decay scheme and the final Tables.
3. Generating the final output files in different formats: ENSDF, PenNuc, Lara, BetaShape.
4. An ultimate checking of consistency of the numbers between report and Tables.
5. Managing the consolidated database.
6. Publishing the evaluation online on DDEP website.
7. Making it available through the Laraweb interface.

Regular publication

→ BIPM monographies for a set of evaluations. Compilation of the latest ~30 evaluations, therefore performed over several years.

→ In discussion: Metrologia reference for all the evaluation published in a year.

- ✓ Associated DOI, regular reference in a peer-review journal, better recognition for the evaluators.
- ✓ Solution also pushed by the KCWG(II) for more traceable references to decay data.

Thank you for attention