

# NJOY Status

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**A. C. (Skip) Kahler & R. E. MacFarlane**

**T-2, Nuclear & Particle Physics, Astrophysics and Cosmology Group  
Theoretical Division  
Los Alamos National Laboratory**

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# NJOY Status

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## ■ NJOY99

- The historical code version. Originally released in 1999 with updates periodically published through the [t2.lanl.gov](http://t2.lanl.gov) web site.
  - Latest version, 99.336, released to the User community in early April.
    - Updated from 99.304.

## ■ NJOY2010

- A new code version, currently undergoing final testing and debugging.
- New User manual
  - Latest draft has 26 chapters, is 737 pages long, contains 580 equations and includes 128 citations.
  - Will submit for LA-UR number in July.
- NJOY review paper has been submitted for peer review and publication in the December 2010 issue of Nuclear Data Sheets.

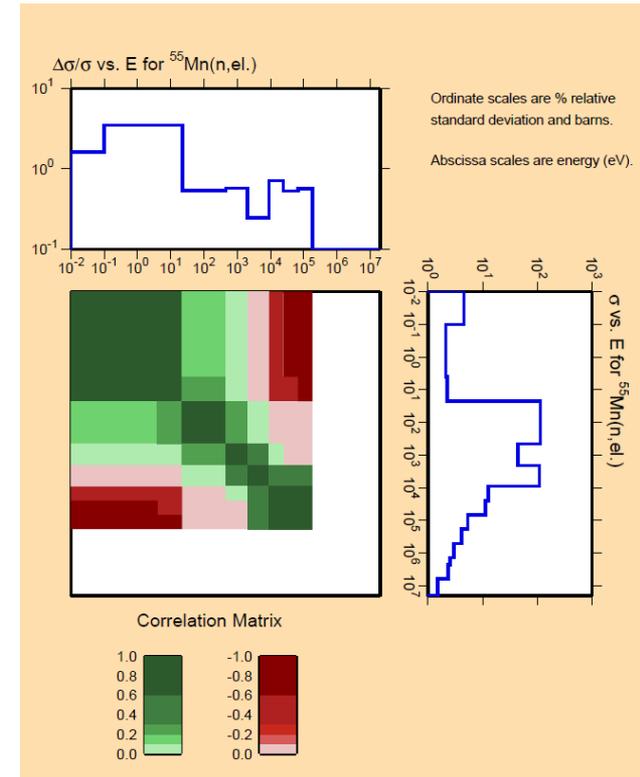
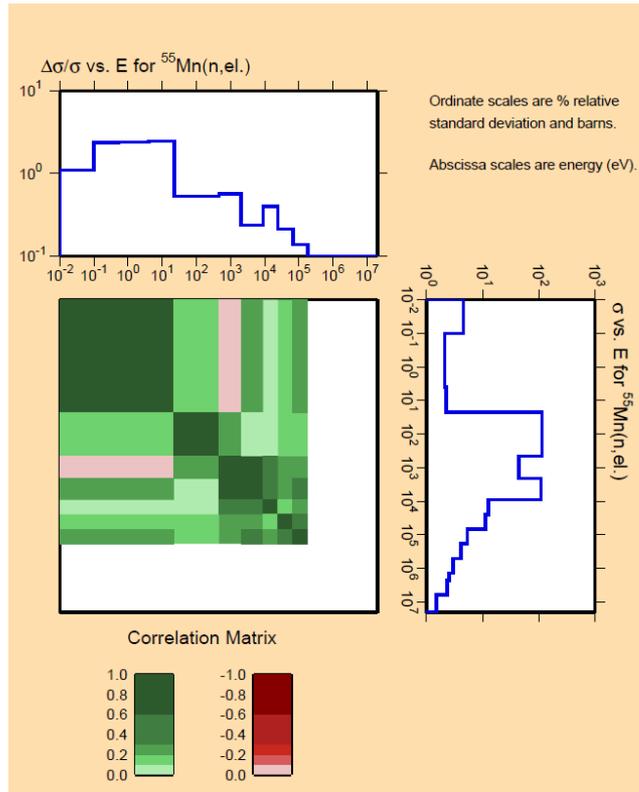
# NJOY Status

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## ■ NJOY99.304 – to – NJOY99.336 Highlights

- Improved R-M processing in ERRORJ (consistent with corresponding RECONR coding);
- Refined beta mesh in THERMR for free gas scattering (consistent with forthcoming NJOY2010);
- Eliminate array overflow error in ACER/PTLEG (only occurred when Legendre order was 64);
- Minor code revisions in selected equivalent GROUPT & HEATR routines for internal consistency and with compiler optimization;
- More robust processing of IRDF (MF10) sections in RECONR, GROUPT & ACER;
- Improved processing in RECONR, BROADR & ACER for TENDL-2009 photonuclear and charged particle files;
- Scattering radius uncertainty processing in ERRORR (via User input or from November, 2009 format revision);
- MF=40 processing in ERRORR & COVR;
- More scratch space in various modules.

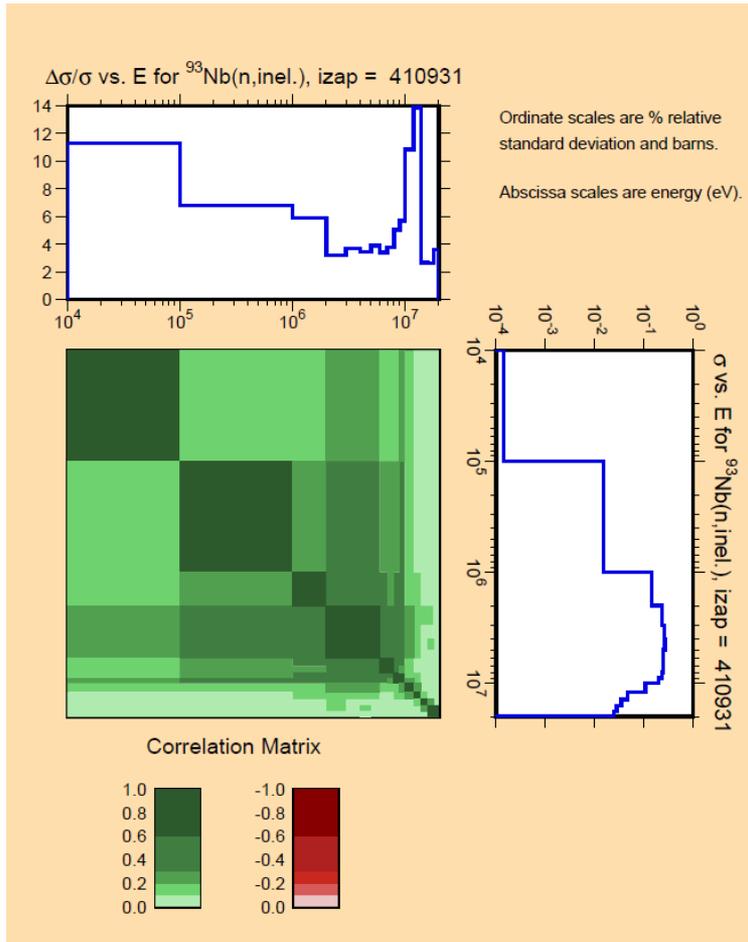
# NJOY/ERRORR/COVR



■ No scattering radius uncertainty

10% scattering radius uncertainty

# NJOY/ERRORR/COVR – MF40



## ■ ENDF/B-VII.0 $^{93}\text{Nb}$

- Includes “10\*IZAP+LFS” identifier read from file 40 per the format modification approved at the Fall 2009 CSEWG meeting.
- Plot format is identical to that produced from file 33 but the presence of the izap label indicates that these are mf40 data.
  - IZAP label identifies the product nuclide and isomer (or ground) state.
- If IZAP is not given in file 40 the text string “MF40” will appear in the title.