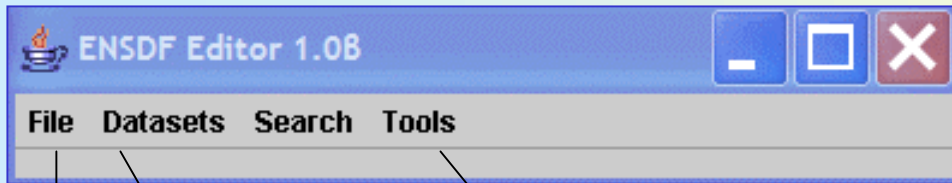


# ENSDF Editor

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- Minimize role of ENSDF format in ENSDF evaluations
- Integrate editor with checking and calculation codes
- Re-use software written for NuDat
- Java is free and platform independent
- Optimize evaluation process
- Help attract new evaluators

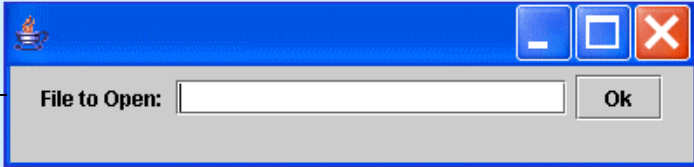
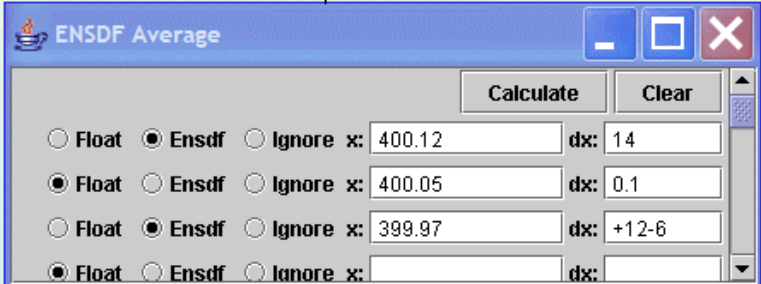


**Master window**

- Display/Hide
- Add new
- Delete

- Calculate Averages
- Check Ensdf
- Merge datasets

- New
- Open
- Save
- Save As
- Format check
- Exit



# Individual dataset window

**ADOPTED LEVELS, GAMMAS**

History Q-Value Parents Normalization Comments XRefs Levels Gammas Alphas Betas EC/B+ Particles Tools

Nucleus: 88RU DSID: ADOPTED LEVELS, GAMMAS Ref: Pub: Date:

History  
 type: FUL authors: G. Mukherjee, A. Sonzogni citation: cut-off: 14-JUN-2004

Qp: Sn: 16380.0 SY Sp: 3814.0 SY Qa: -2267.0 SY Ref: 2003AU02

Comments  
 L J\$From systematics of N = 44 and N = Z even-even nuclei.  
 L BAND(A)\$Yrast band  
 Q \$DSN=718, DSP=499, DQA=566 (2003AU02)

XRefs  
 A 58NI(32S,2NG)

Levels

E: 0.0 Jrr: 0+ T1/2: 1.2 S +3-2 L: S: Q:

XREF: A Flag: A DM: %ECP=? Other Cont. Rec:

T\$from 2001K113 (also 2002STZZ)

E: 616.2 5 Jrr: (2+) T1/2: L: S: Q:

XREF: A Flag: A Other Cont. Rec:

E: 616.2 5 I: M: MR: ICC: TI: Iflag: Coin: Q:

Flag: Final Level: ICC: BE/M(L): Other cont. rec.:

E: 1416.0 7 Jrr: (4+) T1/2: L: S: Q:

XREF: A Flag: A Other Cont. Rec:

E: 799.8 5 I: M: MR: ICC: TI: Iflag: Coin: Q:

Flag: Final Level: ICC: BE/M(L): Other cont. rec.:

E: 2380.3 8 Jrr: (6+) T1/2: L: S: Q:

XREF: A Flag: A Other Cont. Rec:

E: 964.3 5 I: M: MR: ICC: TI: Iflag: Coin: Q:

Flag: Final Level: ICC: BE/M(L): Other cont. rec.:

E: 3480.0 9 Jrr: (8+) T1/2: L: S: Q:

XREF: A Flag: A Other Cont. Rec:

E: 1100.5 5 I: M: MR: ICC: TI: Iflag: Coin: Q:

Flag: Final Level: ICC: BE/M(L): Other cont. rec.:



# ADOPTED LEVELS, GAMMAS

History Q-Value Parents Normalization Comments XRefs Levels Gammas Alphas Betas EC/B+ Particles Tools

Add new  
Delete

Use Audi 03

Add new  
Delete

Add Norm.  
Delete Norm.  
Add Prod. Norm.  
Delete Prod. Norm.  
Get Sum Int. Gammas to GS

Add new  
Delete  
Order

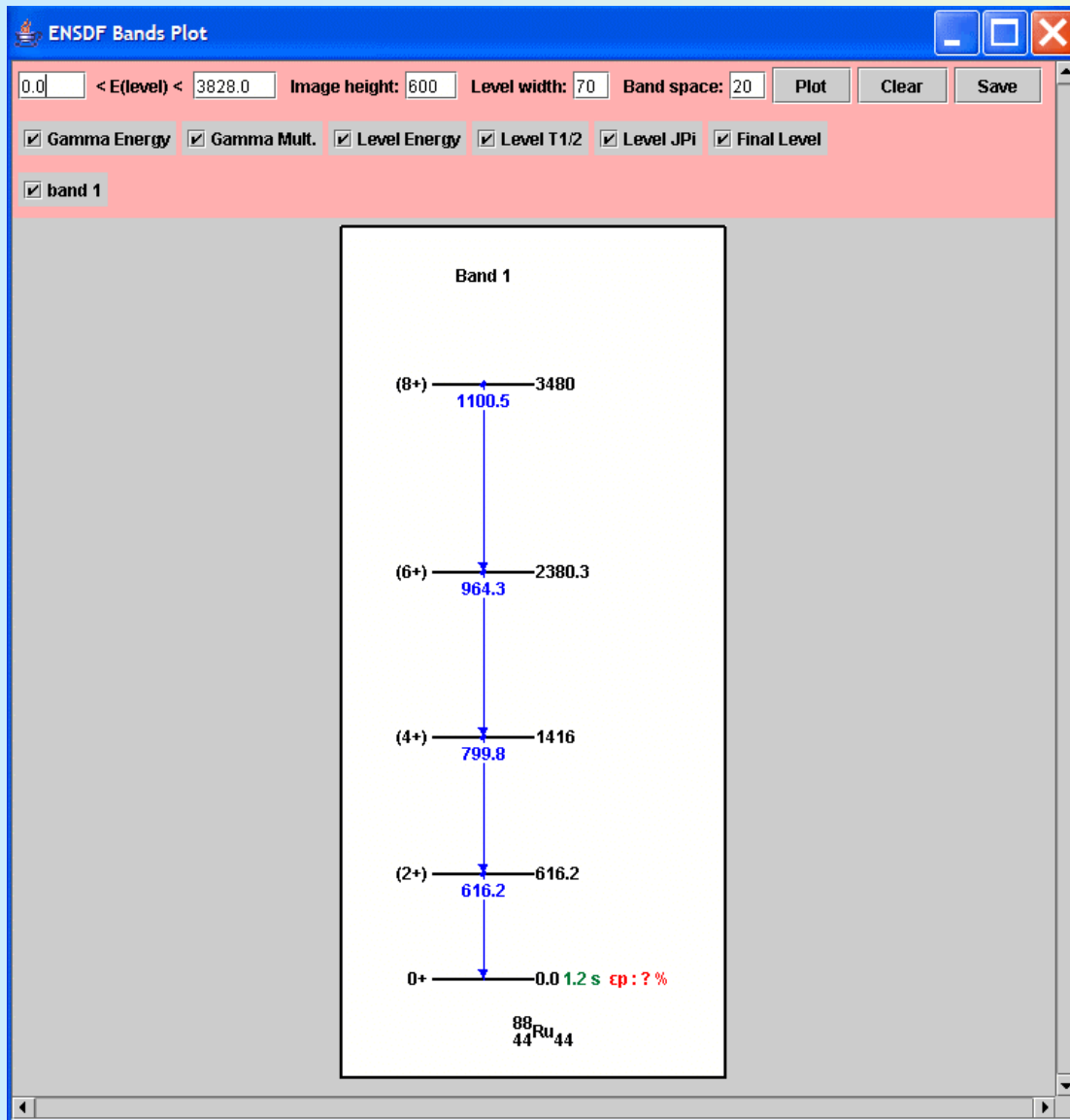
Add new  
Delete

Add new  
Delete  
Add new Comment  
Delete Comment  
Insert ENSDF level  
Use Gamma branching ratios  
Display Final Levels  
Check Final Levels  
GTOL

Add new  
Delete  
Add new Comment  
Delete Comment  
Calculate ICC's  
Calculate B(E,M)'s

Plot  
Calculate Averages  
Statistics  
Check Flags

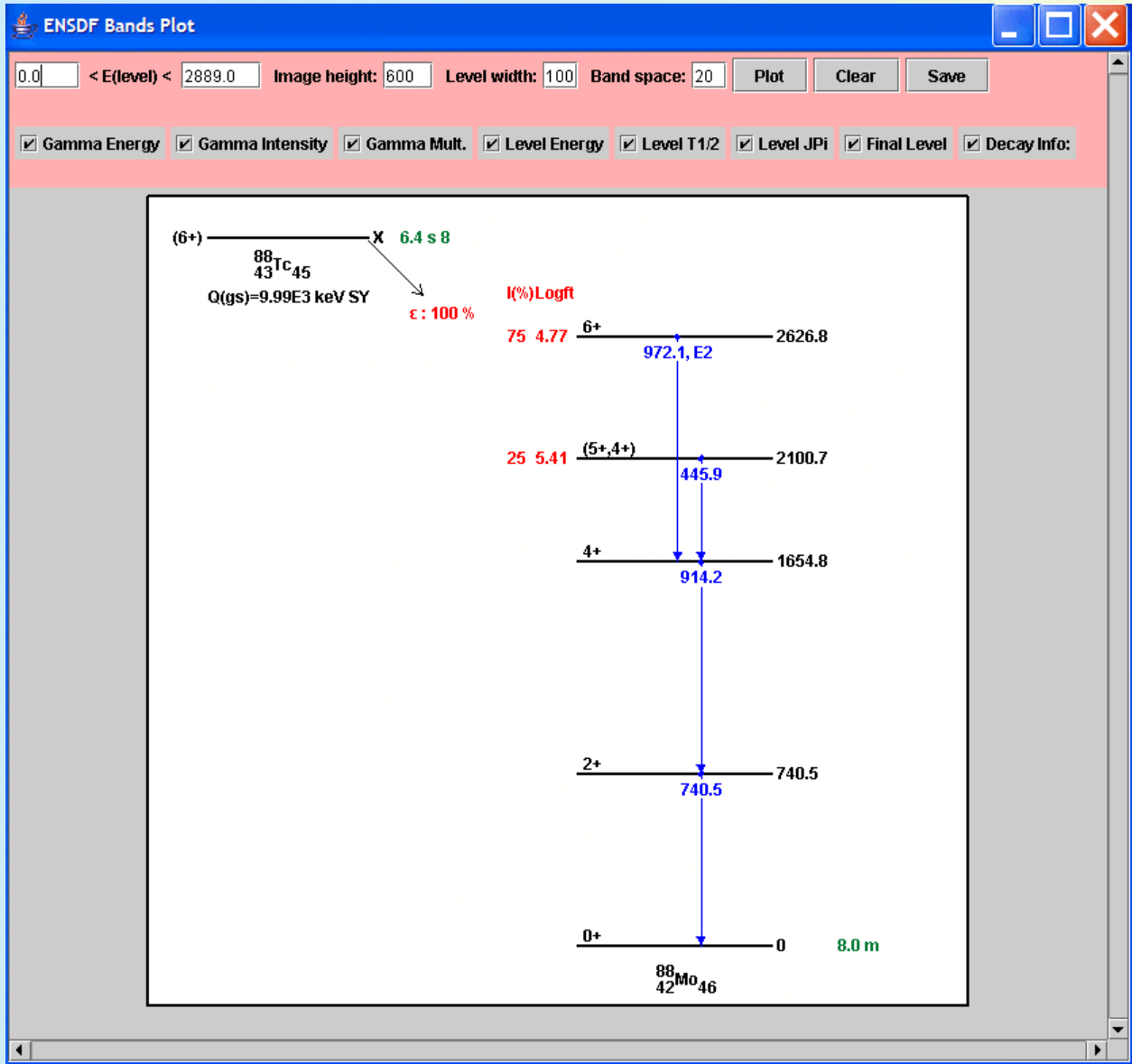
**Menu bar  
individual  
dataset  
window**



Level scheme  
interactive  
plotting tool

Similar to NuDat,  
but using `java.awt`  
and `javax.swing`  
packages for the  
Graphical User  
Interface

Image can be  
saved in `PNG`  
format



Decay scheme  
interactive  
plotting tool

E: 5052.46 18 Jm: 12+ T1/2: 18.0 PS 14 L: S:

XREF: C Flag: TF Other Cont. Rec:

J\$E2 G to 10+, band member

v  E: 441 I: M: MR: ICC:

Flag: Final Level: ICC: BE/M(L): Other cont. rec.:

v  E: 694.3 1 I: 7.0 4 M: MR: ICC:

Flag: Final Level: ICC: BE/M(L): Other cont. rec.:

v  E: 857.3 1 I: 100.0 11 M: E2 MR: ICC: 0.00112

Flag: Final Level: ICC: KC=0.00097 3\$LC=0.00011 BE/M(L): BE2W=2.73 22 Other con

# Final level information

- Add new
- Delete
- Add new Comment
- Delete Comment
- Insert ENSDF level
- Use Gamma branching ratios
- Display Final Levels
- Check Final Levels
- GTOL

**Gammas Final Level**

-- Gammas from selected level: -----

Initial Level: 5052.46 12+ Gamma: 441 I: Mult: Final Level: 4611.12 (10+)

Initial Level: 5052.46 12+ Gamma: 694.3 I: 7.0 Mult: Final Level: 4358.14 (10+)

Initial Level: 5052.46 12+ Gamma: 857.3 I: 100.0 Mult: E2 Final Level: 4195.16 10+

-- Gammas feeding selected level: -----

Initial Level: 5959.24 14+ Gamma: 906.8 I: 100.0 Mult: E2 Final Level: 5052.46 12+

Initial Level: 6206.92 (14+) Gamma: 1154.4 I: 27.8 Mult: Final Level: 5052.46 12+

## Summary and Outlook

**Editor has been used in A=134, 88, 150**

**Integrate with existing Fortran Codes:**

- **GTOL**
- **LOGFT**
- **BRICC**
- **FMTCHK**
- **NDSPUB**

**Possible public release by July 2005**