



International Atomic Energy Agency

**Consultants' Meeting on**  
***“Beta-delayed neutron evaluation”***

IAEA Headquarters, Vienna, Austria  
10 – 12 October 2011

Meeting Room A2313

**Adopted AGENDA**

**Monday, 10 October**

**09:00 - 09:30**     **Registration** (IAEA Registration desk, Gate 1)

**09:30 - 10:15**     **Opening Session**

Welcoming address and Introduction – Daniel Abriola  
Election of Chairman and Rapporteur  
Adoption of Agenda  
Administrative matters

**10:15 - 12:30**     **Presentations by participants (about 45 min each)**

1. The importance of beta-delayed neutrons for astrophysics and reactor physics (Dillmann)
2. Need for compilation and evaluation of Beta-delayed neutron probabilities in radioactive decay (Singh)
3. Remarks on problems in the determination of  $P_n$  values and compilation/evaluation (Pfeiffer)

*Coffee break as needed*

**12:30 – 14:00**     **Lunch**

**14:00 – 17:30**     **Presentations by participants (cont'd)**

4. Release of ENDF/B-VII.1 decay data sub-library (Sonzogni)
5. Beta-delayed neutrons in JEFF 3.1.1 (Kellett)
6. On-going and planned beta-delayed neutron measurements with BELEN for astrophysics, nuclear structure and reactor technology (Tain)
7. Overview of the different neutron detectors in use and planned (Cano)
8. Delayed neutron data in EXFOR (Kellett)

*Coffee break as needed*

## **Tuesday, 11 October**

### **09:00 - 12:30 Round Table Discussion**

- Assessment of need for compilation and evaluation of beta-delayed neutron probabilities over the whole nuclear chart.
- Assessment of need for measurements of beta-delayed neutron probabilities by mass regions.
- Setting up priorities by nuclides/mass region.
- Neutron spectra, neutron/gamma/beta coincidences, impact of  $P_n$  values on  $\nu$ .

*Coffee break as needed*

### **12:30 - 14:00 Lunch**

### **14:00 - 17:30 Round table discussion (cont'd)**

- Scope of the evaluation/measurement project. Evaluation procedures. Timeline of the project.
- Theoretical (model) calculations.
- Responsibilities by data centres and labs.

*Coffee break as needed*

## **Wednesday, 12 October**

### **09:00 - 17:00 Round table discussions (cont'd)**

#### **Drafting of the summary report**

*Coffee and lunch break(s) in between*

### **17:00 Closing of the meeting**