



3rd Research Coordination Meeting on
Development of a Reference Database for PIGE Spectroscopy

IAEA Headquarters, Vienna, Austria

7 – 11 April 2014

Meeting Room M0E27

ADOPTED AGENDA

Monday, 7 April

08:30 – 09:30

Registration (IAEA Registration Desk, Gate 1)

09:30 – 10:15

Opening Session

Opening Remarks and Welcome (R.A. Forrest, SH-NDS)

Introduction: Objectives of this RCM (P. Dimitriou)

Election of Chairman and Rapporteur

Discussion and Adoption of the Agenda (Chairman)

10:15 – 10:45

Coffee break

10:45 – 12:15

Presentations

- 1) *Proposal of an interlaboratory PIGE experiment,*
Pedro de Jesus (~ 30 min)
- 2) *Gamma-ray production cross sections for deuteron induced reactions on C, N and Si,*
Kiss (~ 30 min)
- 3) *PIGE Data for Material Analysis from Nuclear Astrophysics and other Sources,*
Becker (~ 30 min)

12:15 – 12:30

Administrative matters

12:30 – 14:00

LUNCH

14:00 – 17:30

Presentations (cont'd)

- 4) *Cross section measurements of the $^{10}\text{B}(p,p'g)^{10}\text{B}$, $^{10}\text{B}(p,ag)^7\text{Be}$ and $^{11}\text{B}(p,p'g)^{11}\text{B}$ reactions at the energy range between 2.5 to 5 MeV,*
Lagoyannis (~30 min)
- 5) *Gamma-ray production cross sections of proton irradiated nitrogen,*
Raisanen (~30 min)
- 6) *Recent PIGE measurements at the VDG Lab in Tehran,*
Kakuee (~30 min)
- 7) *PIGE measurements performed at the Ruđer Bošković Institute,*
Bogdanović Radović (~30 min)

Coffee break as needed

Tuesday, 8 April

09:00 – 12:30

Presentations (cont'd)

- 8) *Measurements of proton induced gamma-ray emission cross sections and yields on Al and Na,*
Chiari (~30 min)
- 9) *Measurement of gamma production in thin LiF targets at CMAM,*
Zucchiatti (~30 min)
- 10) Strivay (~10 min)
- 11) *R-matrix calculations for charged-particle induced reactions using SAMMY,*
Dimitriou (20 min)

12:30 – 14:00

LUNCH

Coffee break as needed

14:00 – 17:30

Round Table Discussion

Session on Codes:

ERYA (bulk)-finally available and ERYA profile-final adjustments,
A. Pedro de Jesus

Coffee break as needed

19:00

DINNER at a restaurant in the city

Wednesday, 9 April

09:00 – 12:30

Round Table Discussion (cont'd)

Presentation of slides sent by A. Goncharov (by A. Kiss)

Coffee break as needed

12:30 – 14:00

LUNCH

14:00 – 17:30

Joint Nuclear Data (NDS) - Physics Section (PS) Session (Room TBA)

Common session with participants of Physics Section Consultant's Meeting on **Improving the Quality of Analytical Data Measured by Ion Beams** (from 7 to 10 April 2014 Vienna Austria, PO: Aliz Simon)

- *NDS Programme on IBA applications*
P. Dimitriou (10')+ V. Zerkov (5'), NDS IAEA
- *PS Programme on IBA applications*
A. Simon (15'), PS IAEA
- *PIGE CRP: where are we?*
Massimo Chiari, INFN-Firenze, Italy (10')
- *From data to PIGE analysis*
Adelaide Pedro de Jesus, CFNUL, Portugal (10')
- *Improving the Quality of Analytical Data Measured by Ion Beams*
Nuno Barradas, IST, Portugal (10')
- *Uncertainty of EBS scattering cross-section function*
Chris Jeaynes, University of Surrey, England (10')
- **Discussion on**
 - ✓ IBANDL
 - ✓ Standardless PIGE: codes
 - ✓ Joint NDS-PS ICTP/IAEA Workshop
 - ✓ Uncertainty of EBS scattering cross-section
 - ✓ Future Activities

Coffee break as needed

Thursday, 10 April

09:00 – 12:30 **Round Table Discussion (cont'd)**

CRP Final Document

Coffee break as needed

12:30 – 14:00 *LUNCH*

14:00 – 17:30 **Round Table Discussion (cont'd)**

CRP Final Document

Drafting of the 3rd RCM Summary Report

Coffee break as needed

Friday, 11 April

09:00 – 12:30 **Drafting of the 3rd RCM Summary Report (cont'd)**

Coffee break as needed

12:30 – 13:00 **Closing of the Meeting**