

Consultants' Meeting on

Evaluation of Nuclear Moments

27-30 March 2017 G0E85, IAEA Headquarters, Vienna, Austria

PROVISIONAL AGENDA

Monday, 27 March

09.00	Welcome and opening remarks	NDS Section Head
	Administrative matters	Dimitriou/Lidija
	Election of Chairman/Rapporteur	
	Adoption of Agenda	
09.15	Objectives and outline of the meeting	Dimitriou (15')
09.30 -	- 12.30	
	Table of recommended nuclear moments - what needs to be done	Stone (20')
	Online Database	Merztimekis (10')
	Spins and magnetic moments	Kondev (15')
	Nuclear Magnetic Dipole Moments from Gas	Jackowski (10')
	Phase NMR Spectra	
	Hyperfine anomaly from an atomic physics view	Persson (10')
	Nuclear quadrupole interactions	Pyykkö (10')
	Short-lived states	Stuchbery (10')
	Collinear Laser spectroscopy at ISOLDE	Bissell (10')
(Coffe	e break as needed)	

Session 1: The most precise moments.

Corrections for diamagnetism	
Introduction	Jackowski (30'+)
Other contributions:	
Corrections concerning applied fields in other	techniques Stone
Discussion	
(Coffee break as needed)	
12.30 – 14.00 Lunch	
14.00 – 17.30 Session 1 cont'd	

Tuesday, 28 March

09.00 – 12.30 Session 2	
Methods to study moments and radii of long-lived (> 1 ms) and stable isotope	s and isomers
	Neyens (10')
Session 2: The hyperfine anomaly	
Potential for, and interest in making, correction for this effect	
Introduction	Persson (30'+)
Other contributions:	
Hyperfine anomalies in Bi	Bissell
Hyperfine anomalies in atoms and metals: experiments on Au isotopes	Stone
Discussion	
(Coffee break as needed)	
12.30 – 14.00 Lunch	
14.00 - 17.30 Continue session 2 / start session 3	
Session 3: Measurements on short-lived excited states	
Transient Field measurements	
Introduction	Stuchbery (30'+)
Other contributions:	
Calibration problems in the TF method	Stone
NMR, TDPAD, laser spectroscopy	Neyens
Discussion	
(Coffee break as needed)	
19.00 Dinner at local restaurant	
Wednesday, 29 March	
09.00 – 12.30 Session 3 cont'd	
Contributions regarding aspects of measurement of excited state moments	
Other methods TDPAC, TDPAD, IPAC, Mossbaur effect	
Discussion	
(Coffee break as needed)	
12.30 – 14.00 Lunch	

14.00 – 17.30 Session 4: Nuclear electric quadrupole moments

Introduction	Pyykkö (30+)
Other contributions:	
Evaluation of quadrupole moments in the sd-shell quadrupole moments of	f ^{8,9} Li isotopes Neyens
Problem elements and secondary standards in Q extraction	Stone
Quadrupole interactions in 'cubic' ferromagnets – a complication in NM	<i>R/ON'</i> Stone
Discussion	(Coffee break as needed)

Thursday, 30 March

09.00 - 12.30 Start wrap-up session with summaries

Session 1	Jackowski (30')			
Session 2	Persson (30')			
Session 3	Stuchbery (30')			
Session 4: What is needed for QEM?	Pyykkö (30')			
Discussion regarding next steps, actions and those involved.				
(Coffee break as needed)				

12.30 Closing of the meeting.