

Meeting of the ICRM Liquid Scintillation Counting Working Group

25-26 January 2021

virtual meeting

Agenda

First day (Monday, 25 January)

All times are given in Paris time!

11:30 Start of the meeting
11:45-11:55 Organisational matters etc. (KK, all)

Session 1: Hardware settings, instrumentation

11:55-13:20

- Performance of a miniature TDCR counter for radionuclide metrology ([Benoit Sabot](#))
- A new custom-built CNET counter ([Ole Nähle](#))
- A novel approach for activity determination by measuring timing distributions in LSC ([Krasimir Mitev](#))
- Evaluation of accidental coincidences counting rates in TDCR counting ([Chavdar Dutsov](#))
- Discussion ([all](#))

13:20-14:20 Lunch/dinner/breakfast break

Session 2: Models, methods, applications

14:20-16:30

- Development of DCC for TDCR based $4\pi(\text{LS})\text{-}\gamma$ coincidence counting system at NIM ([Haoran Liu](#))
- A new Compton spectrometry LSC counting system – first experiments and results ([Benoit Sabot](#))
- On the photomultiplier-tube asymmetry in LS counting ([Karsten Kossert](#))
- Measurements of very short half-lives ([Marcell Takács](#))
- Recent experience with TDCR acquisition with CAEN desktop digitizer: Application to determination of the half-life of excited states ([Chavdar Dutsov](#))
- Discussion ([all](#))

approx. 17:00 Close of day 1

Second day (Tuesday, 26 January)

11:30 Start of the meeting

Session 2: Models, methods, applications (continued):

11:35-13:20

- Activity standardization of $^{106}\text{Ru}/^{106}\text{Rh}$ by means of liquid scintillation counting and the importance of ^{106}Ru beta spectrum ([Christophe Bobin](#))
- Improved activity standardization of $^{90}\text{Sr}/^{90}\text{Y}$ by means of liquid scintillation counting ([Karsten Kossert](#))
- Influence of the coincidence resolving time on TDCR measurement results ([Chavdar Dutsov](#))
- ^{222}Rn measurements by TDCR counting – metrological aspects ([Philippe Cassette](#))
- Discussion ([all](#))

13:20-14:20 Lunch/dinner/breakfast break

Session 2: Models, methods, applications (continued):

14:20-15:50

- A mock standard for a new ^{90}Y microsphere (work in progress) ([Raphael Galea](#))
- Preliminary activity measurements of the ^{90}Y by Cherenkov counting ([Tomasz Ziemek](#))
- LS-based observations on the ^{153}Gd decay scheme ([Denis Bergeron](#))
- LSC activity measurements for the multigamma standard sources production ([Justyna Marganiec-Gałązka](#))
- Discussion ([all](#))

Session 3: Comparisons:

15:50-16:50

- ESIR: progress of the ^{60}Co pilot study ([Romain Coulon](#))
- Results of the CCRI(II)-K2.Fe-55.2019 key comparison ([Ryszard Broda](#))
- Proposed comparison: Analysis of same data set from a digitizer ([Ole Nähle](#))
- Discussion ([all](#))

General discussions

approx. 17:00: Close of day 2, end of meeting