BIPM Workshop on

# Digital electronics for the RMO SIRTIs

8 June from 12 h 00 to 16 h 30 Paris time

Online *via* Teams

**Participants:**

People from RMOs having developed, presently developing or wishing to develop digital electronics suited for a RMO SIRTI comparison based on well-type NaI(Tl) counting.

**Aims:**

* to define the needs
* to share experience with different digital electronics and discuss the pro and cons
* to present developments for discussion
* to make a short list of the best suited solutions for RMO SIRTI

**Programme**

*Introduction*

12:00 C. Michotte (BIPM): Welcoming address

12:05 C. Michotte (BIPM): Define the needs for a SIRTI electronics

12:20 C. Bobin (LNE-LNHB): Main features of the MTR2 module for dead-time processing and adaptation of those features in a digital system.

*Comparing digital electronics performances*

12:40 T. Durán (IRA): Overview of digitizers available at IRA

13:00 R. Galea (NRC): Overview of digitizers available at NRC

13:20 H. Liu (NIM): The existing developments and application experience of digital electronics at NIM

**13:40 Break**

*Developments in progress*

14:10 C. da Silva (LNMRI/IRD): Initial Tests with LNMRI/IRD Digital Coincidence System

14:30 Agung Agusbudiman (KRISS): Development of FPGA-based electronic modules for digital counting system

14:50

15:10 R. Coulon: Validation of the CAEN DT5730 digitizer for the TDCR measurement and perspective for the SIRTI

15:30 C. Michotte: LabView live-time correction using NI-6341module: comparison with the MTR2 module (in progress)

*15:50 General discussion*

16:30 end