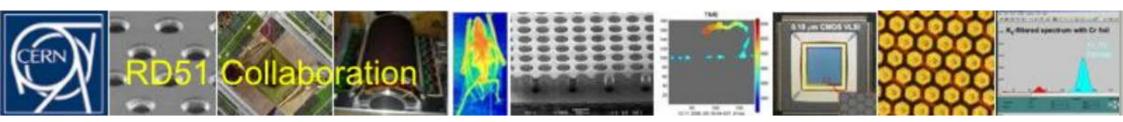




TOTEM SINGLE DIAMOND DETECTORS - RD51 Test beam

F. García On behalf of TOTEM experiment



OUTLINE

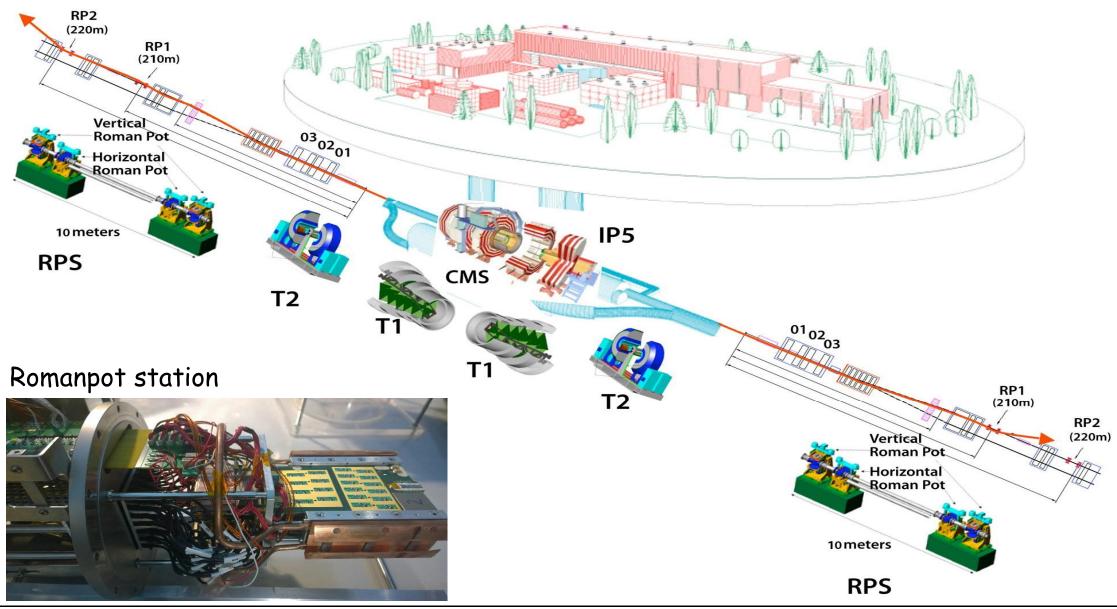
1. INTRODUCTION AND MOTIVATION

2. TEST SETUP

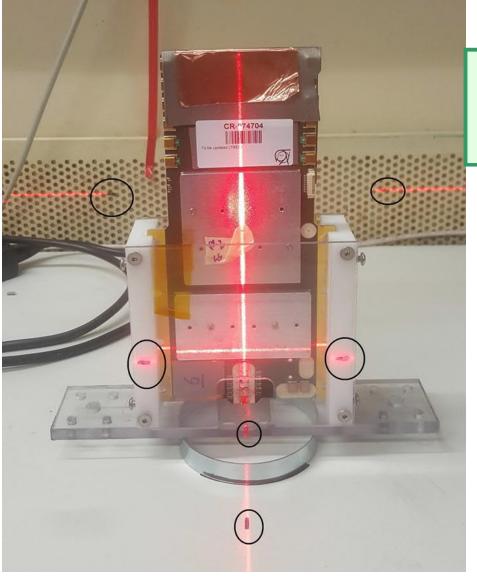
3. SYNCHONIZATION OF SRS - SAMPIC DAQs

4. SUMMARY

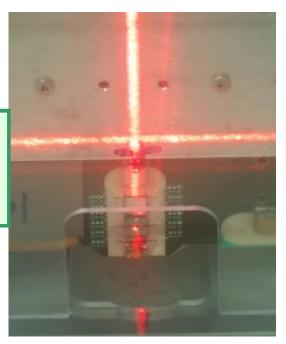
INTRODUCTION and MOTIVATION

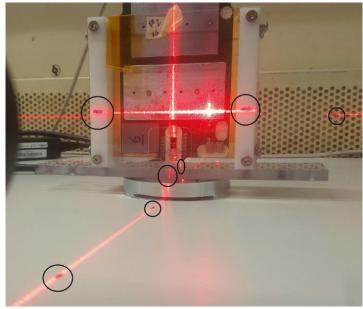


TEST SETUP

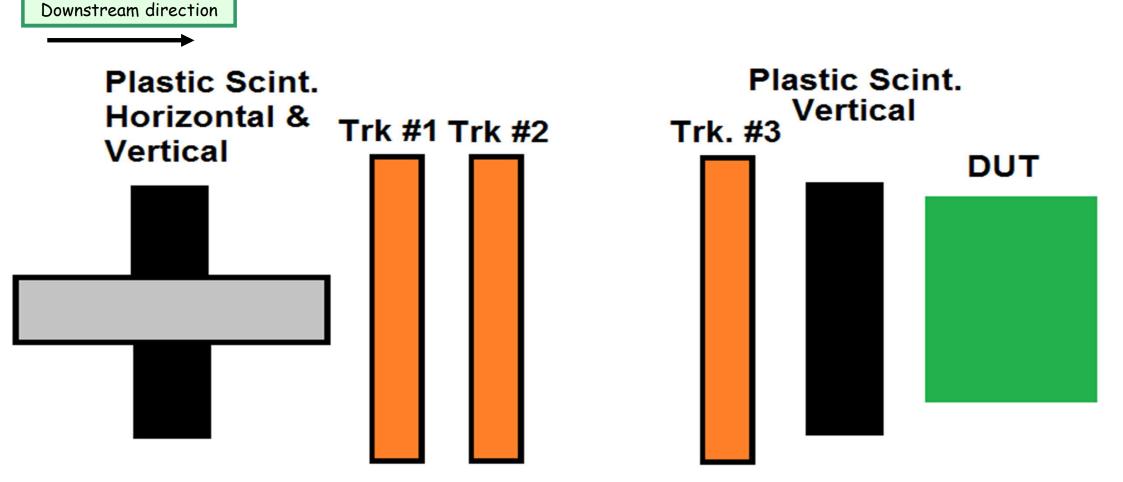


Laser local Alignment for all four cards



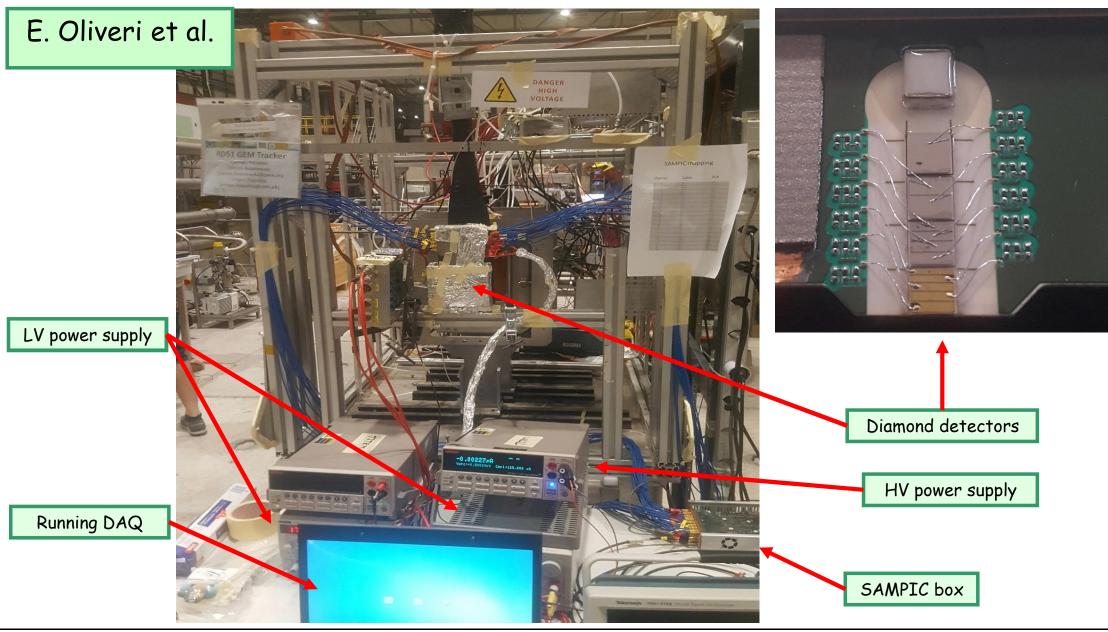


TEST SETUP (cont.)

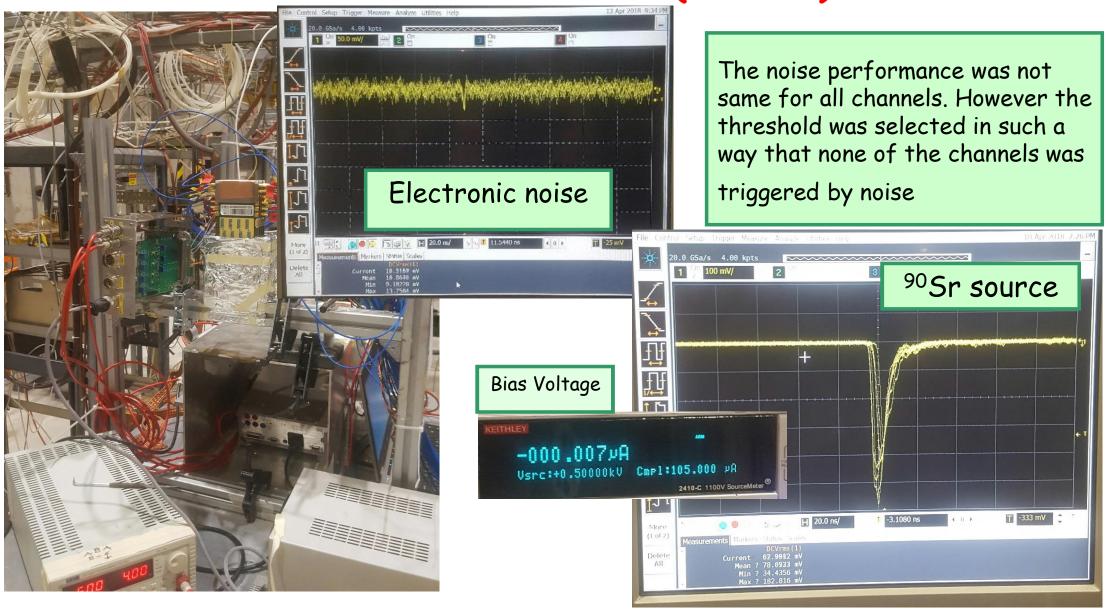


RD51 Reference Tracker

TEST SETUP (cont.)

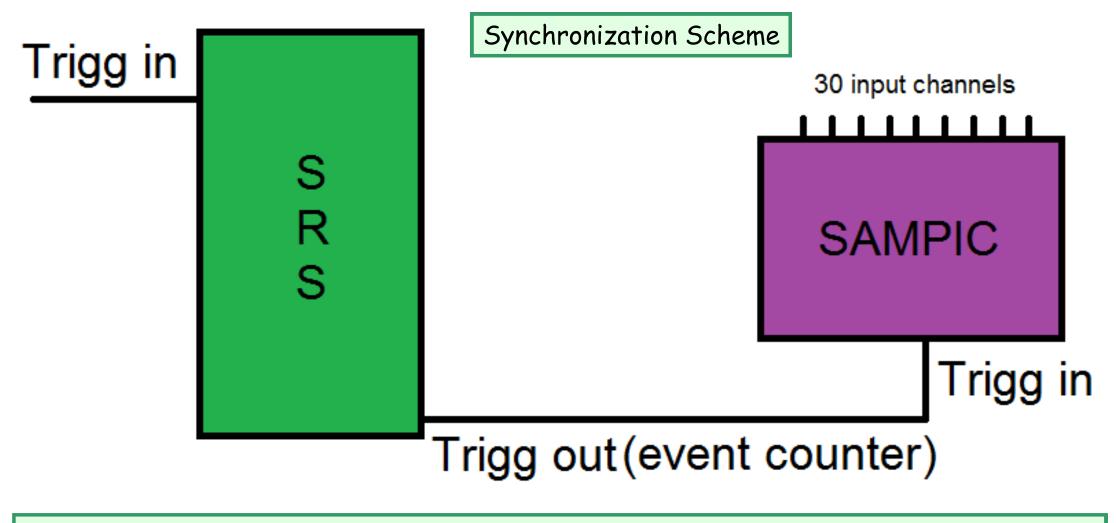


TEST SETUP (cont.)



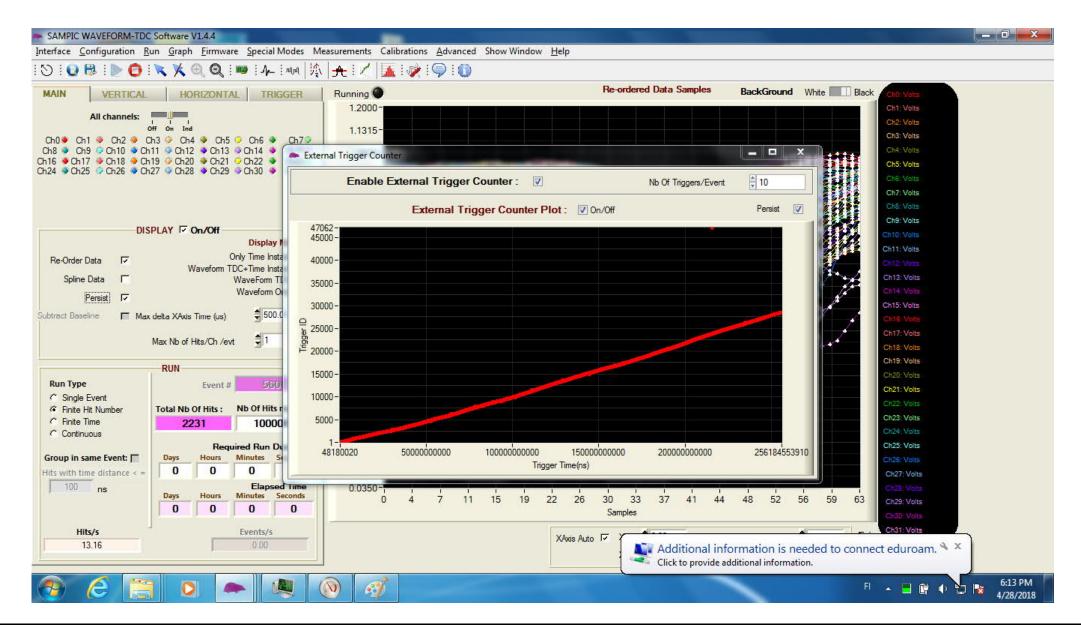
22.06.18

SYNCHRONIZATION OF SRS - SAMPIC DAQs (cont.)



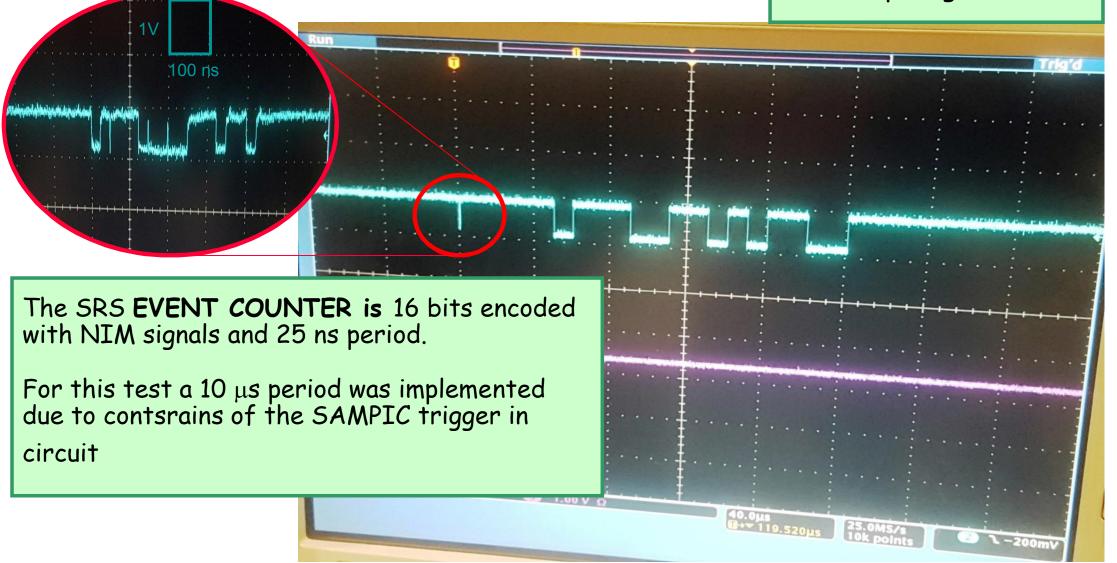
Very important remark the data is align later off line

SYNCHRONIZATION OF SRS - SAMPIC DAQs (cont.)

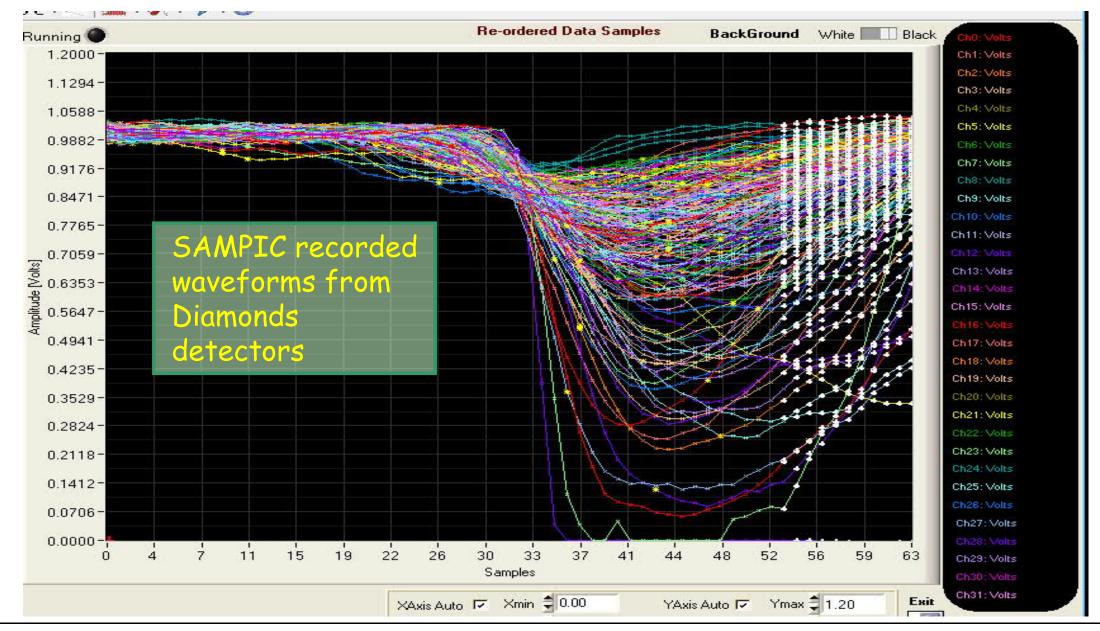


SYNCHRONIZATION of SRS - SAMPIC DAQS

M. Lupberger et al.



SYNCHRONIZATION OF SRS - SAMPIC DAQs (cont.)



SUMMARY

- 1. The Diamond detectors worked very well
- 2. The Noise was relatively low 10 mV RMS
- 3. The RD51 reference tracker performs very well
- 4. The attempt to synchronize two DAQs failed
- 5. A bug in the SAMPIC trigger in circuite was found and a new firmware is on the way (Thanks to D. Breton et al.)
- 6. Thanks to all RD51 test beam crew. I see Leszek and Eraldo are Spiritually linked to TOTEM forever and this is a good thing.....