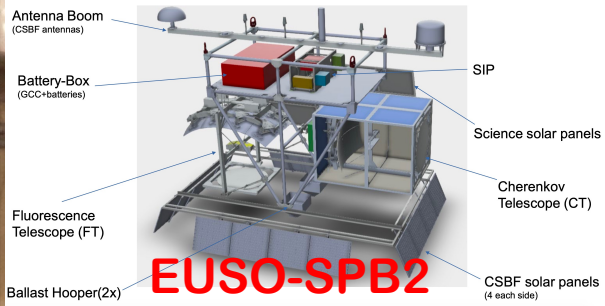
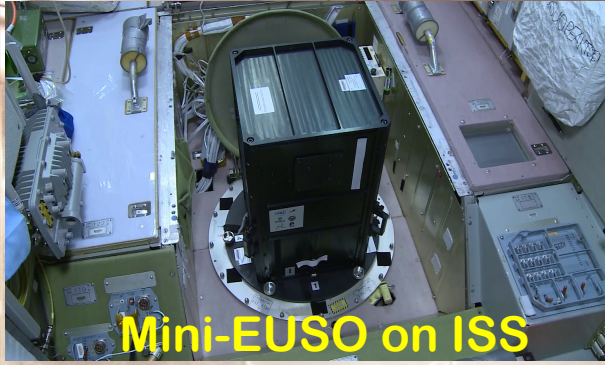
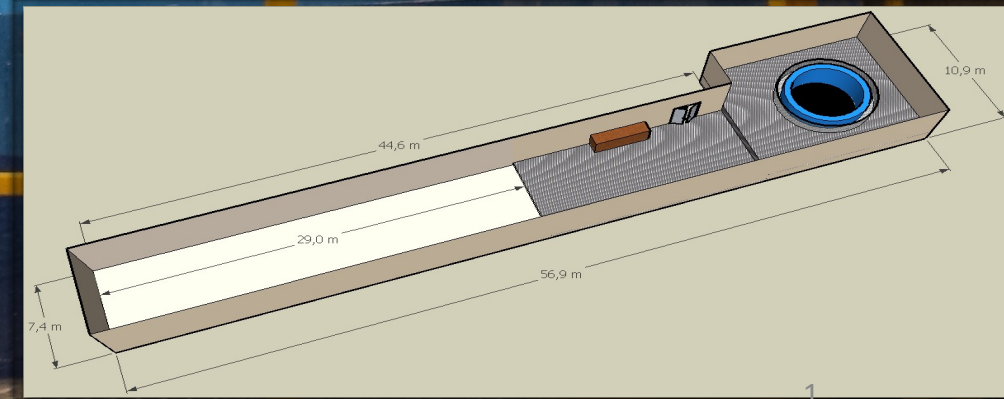


EUSO@TurLab project in view of Mini-EUSO and EUSO-SPB2 missions



H. Miyamoto & M. Bertaina (Univ. & INFN Torino)
for the JEM-EUSO Collaboration

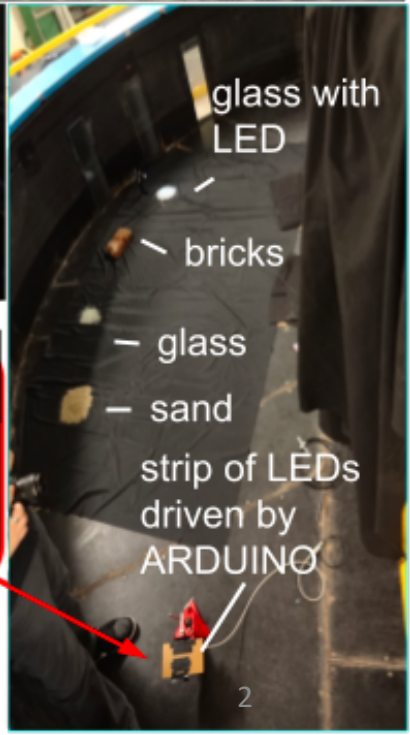
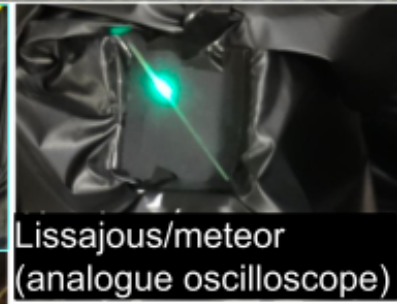
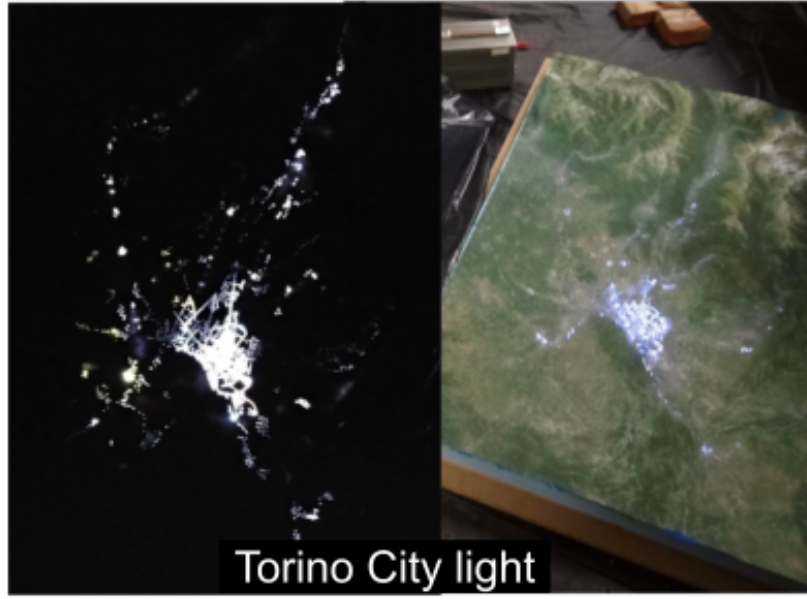
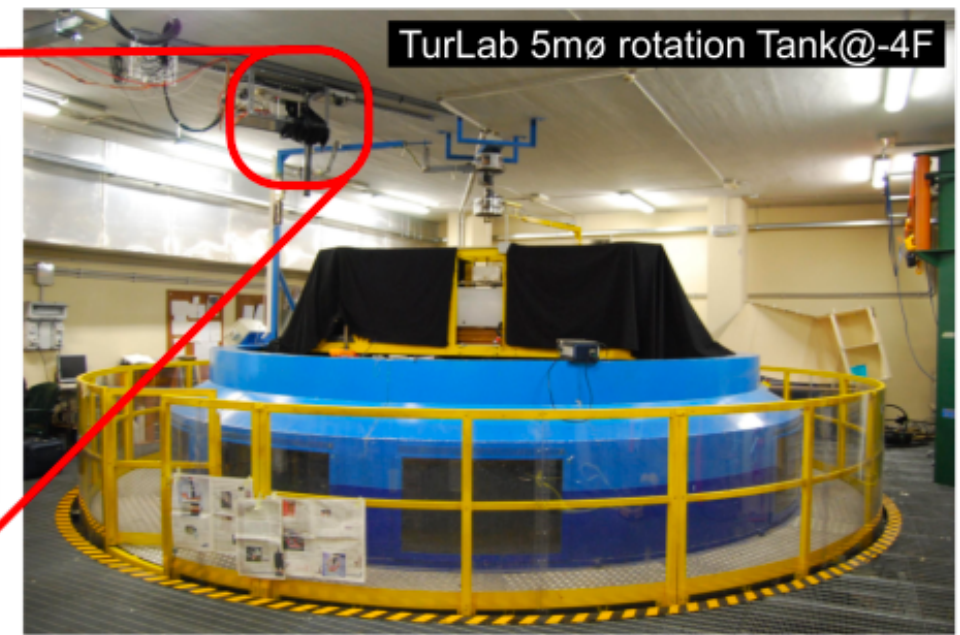
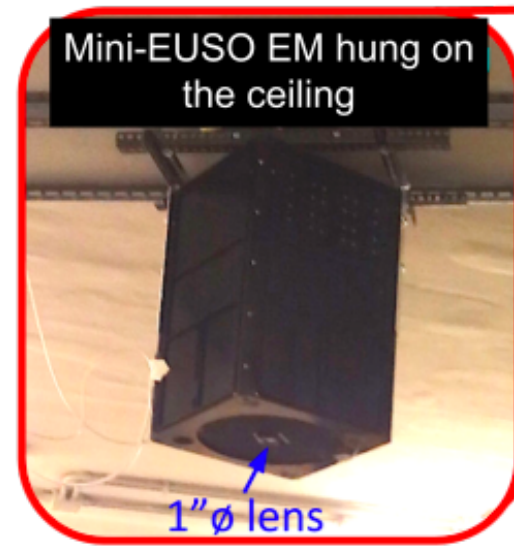
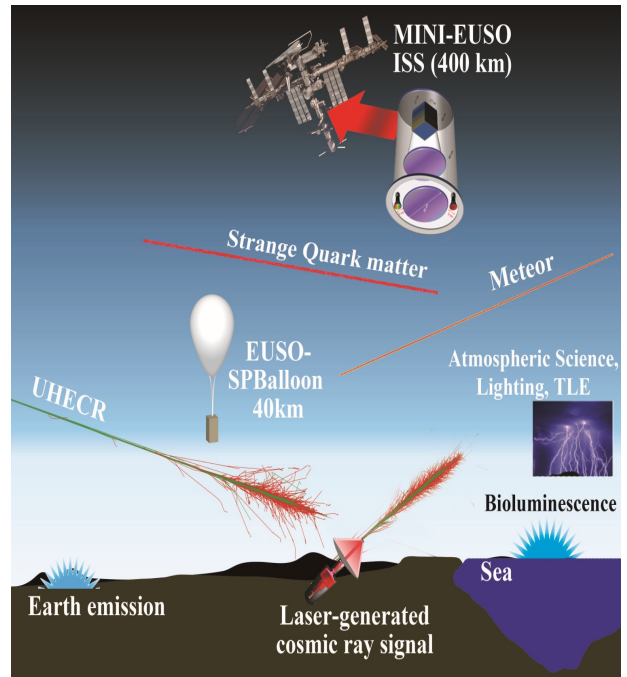
ICRC 2021



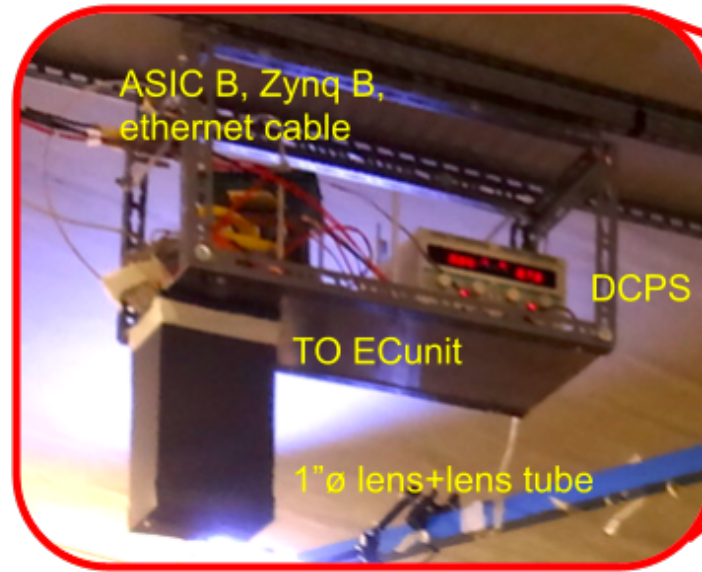
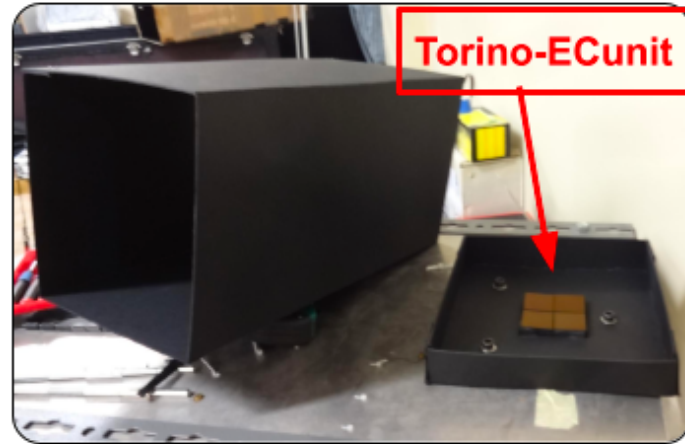
ID 614 - 16/7 @ 18:00

TurLab: facility for JEM-EUSO program (i.e. Mini-EUSO)

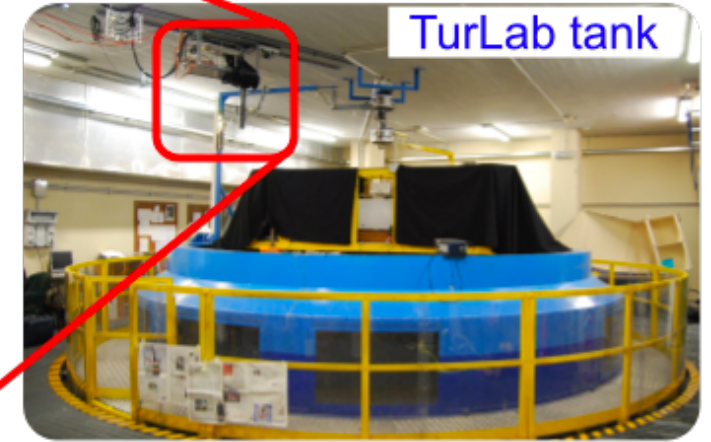
TurLab tank and materials



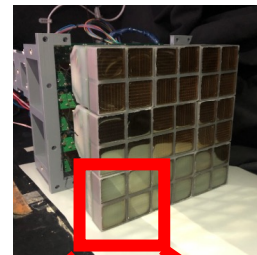
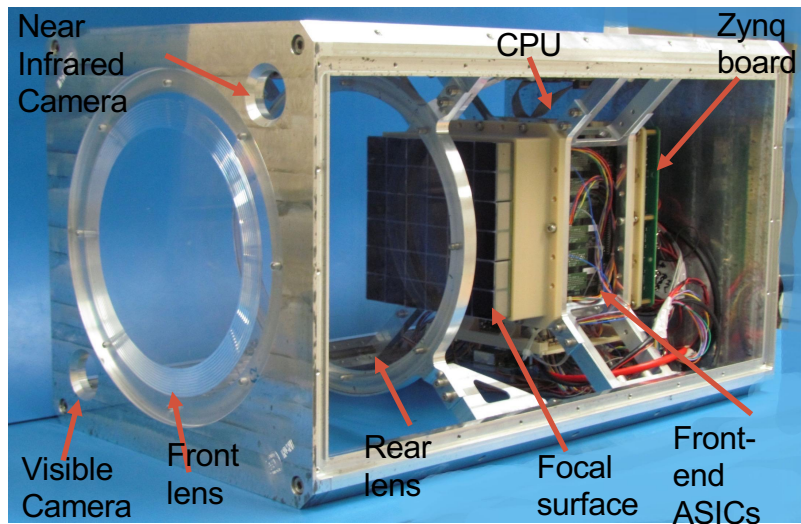
Torino Elementary Cell (EC) Unit + Mini-EUSO electronics @ TurLab



TorinoEC+Mini-EUSO Electronics Setup@TurLab



Mini-EUSO: 36 MAPMTs x 64 pixels/MAPMT

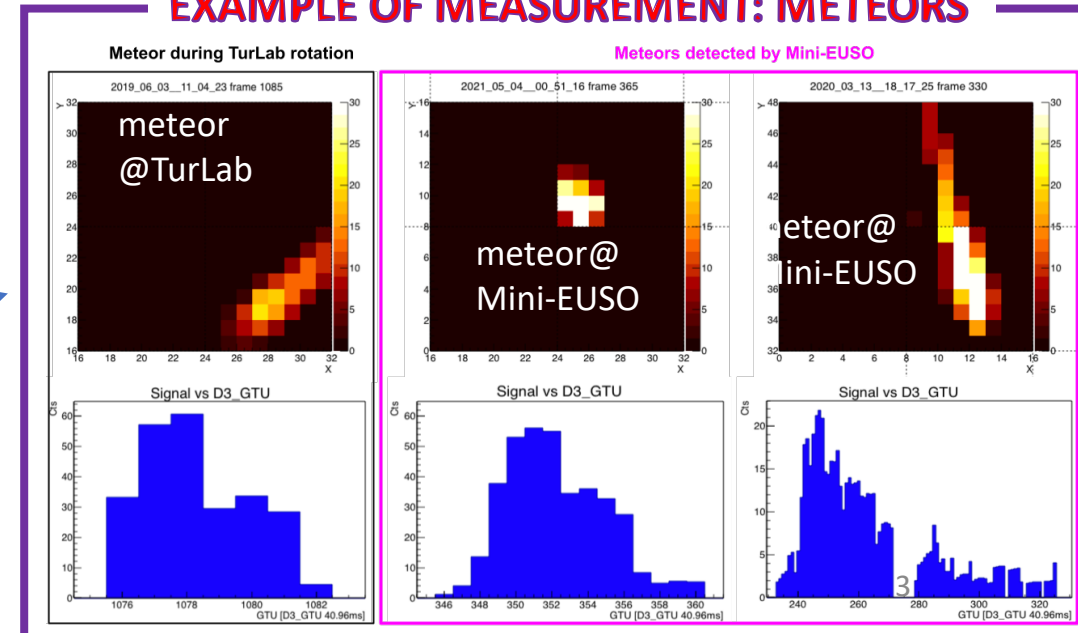


PDM



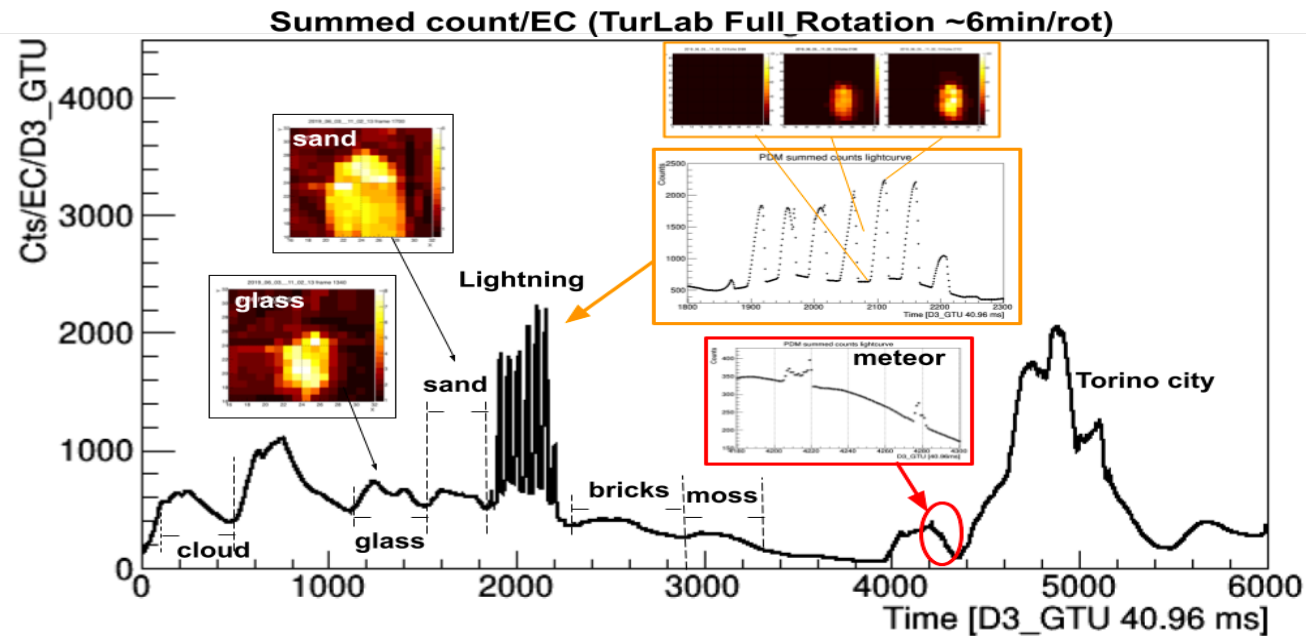
EC

EXAMPLE OF MEASUREMENT: METEORS

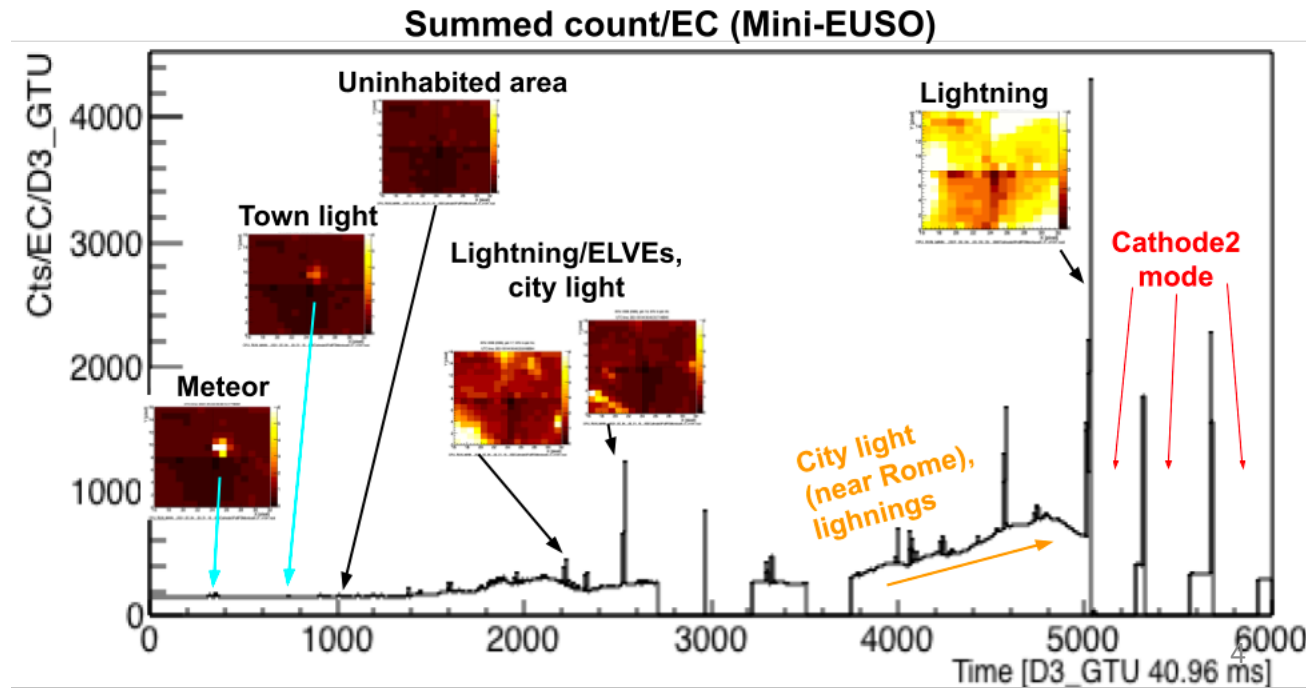


COMPARISON BETWEEN MEASUREMENTS

**TurLab
(~6 min/rotation)**

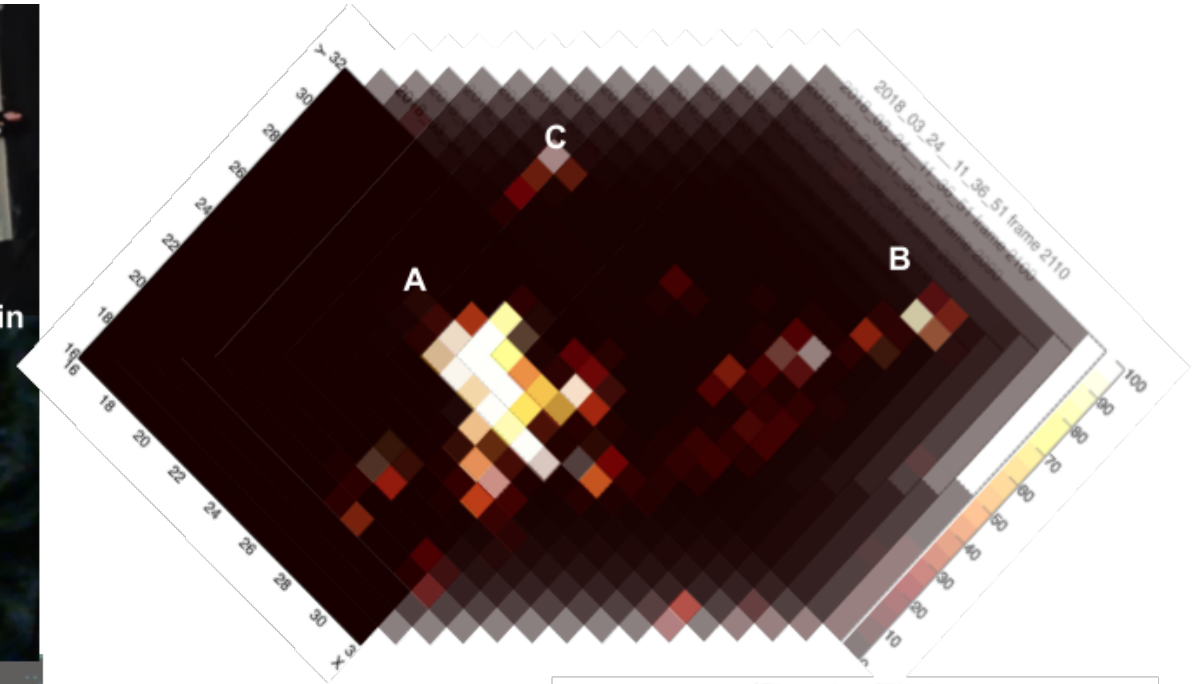
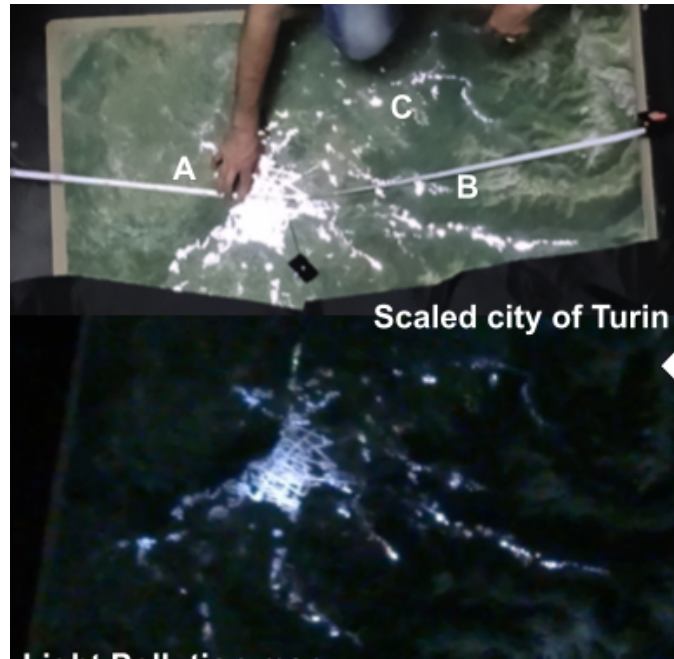


**Mini-EUSO @ ISS
(~45 min/rotation)**

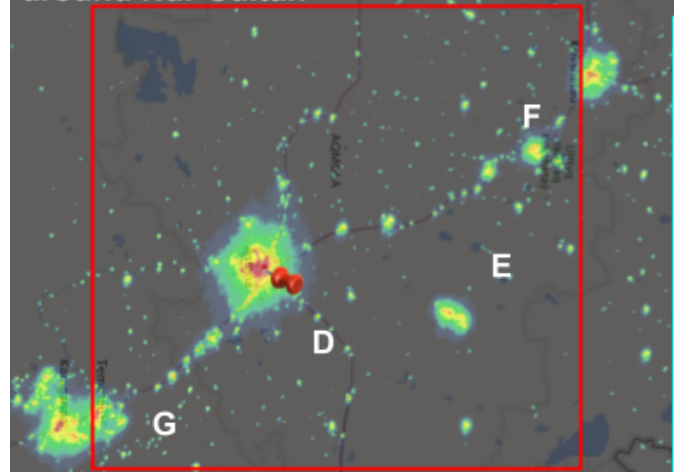


COMPARISON BETWEEN MEASUREMENTS: CITY LIGHTS

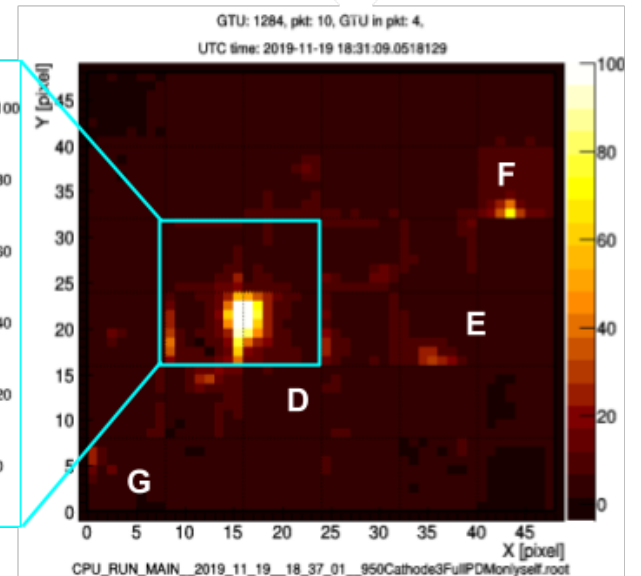
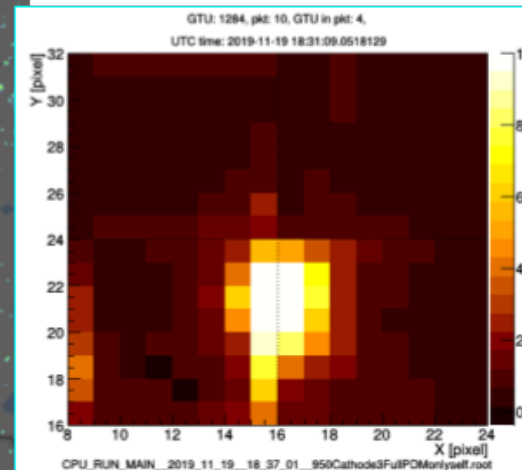
Turin (Italy)
@ TurLab



Light Pollution map
around Nur-Sultan



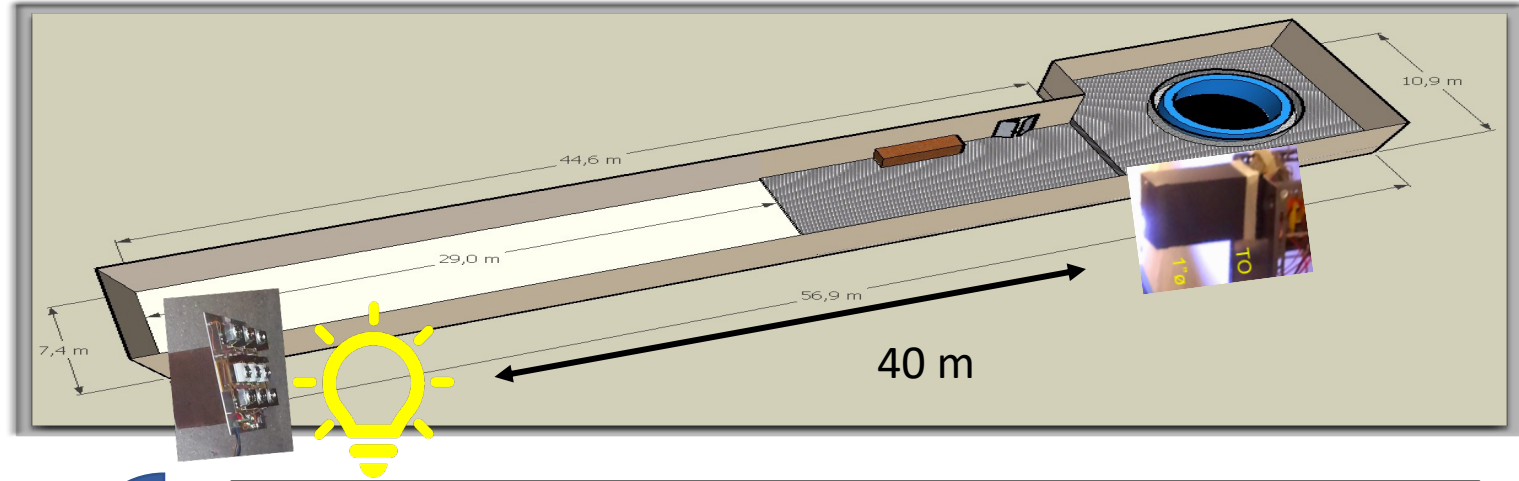
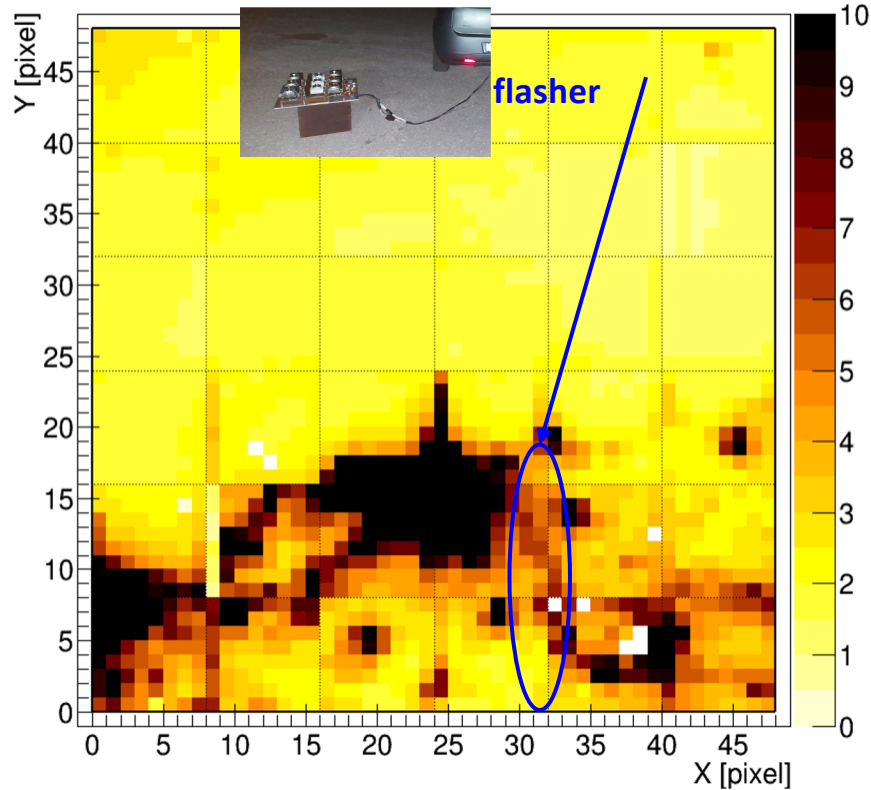
Nur Sultan
(Kazakhstan)
with Mini-EUSO



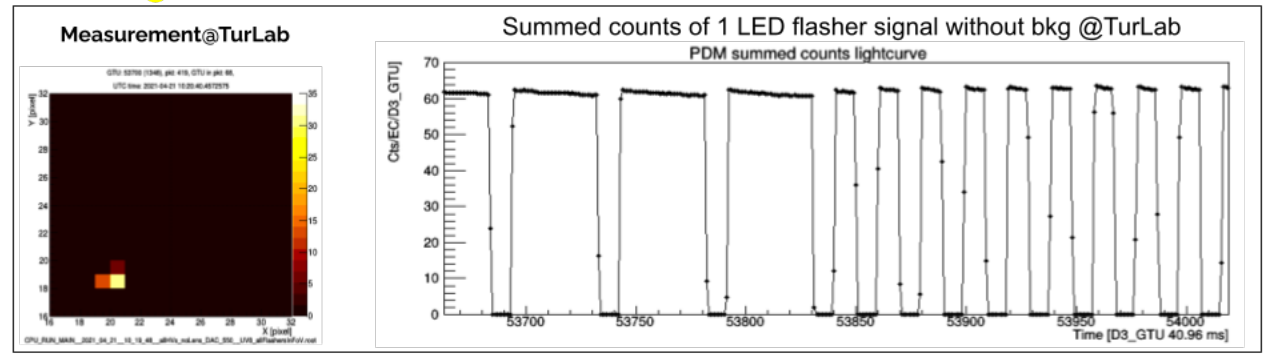
UV flasher tests @ TurLab for an end-to-end calibration of Mini-EUSO

UV flasher

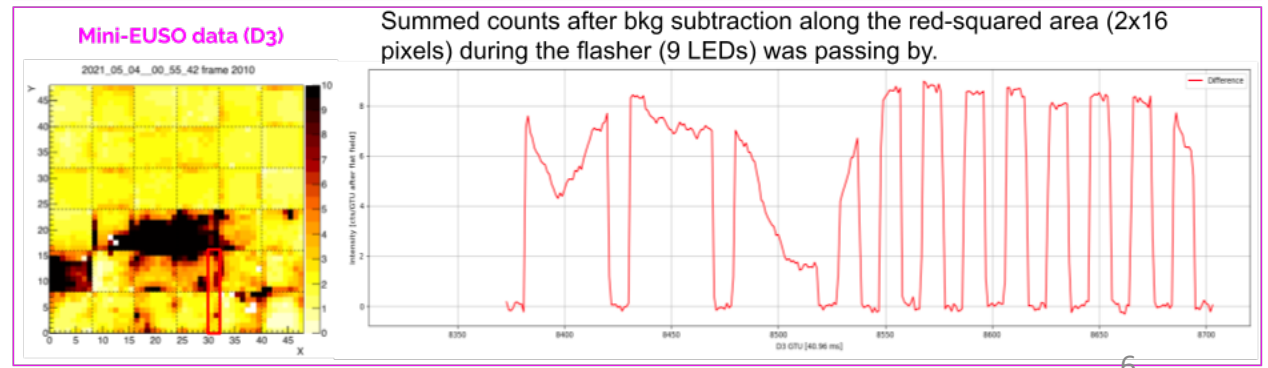
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TurLab

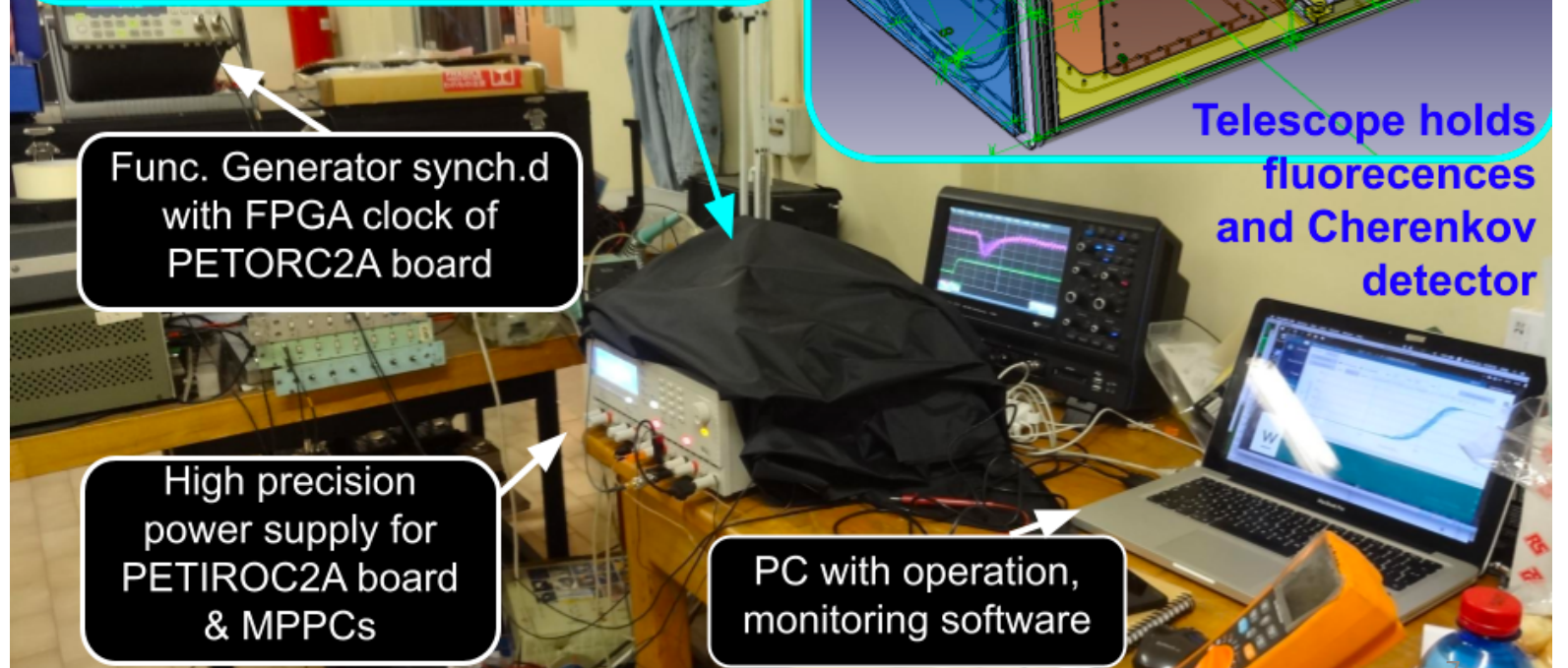
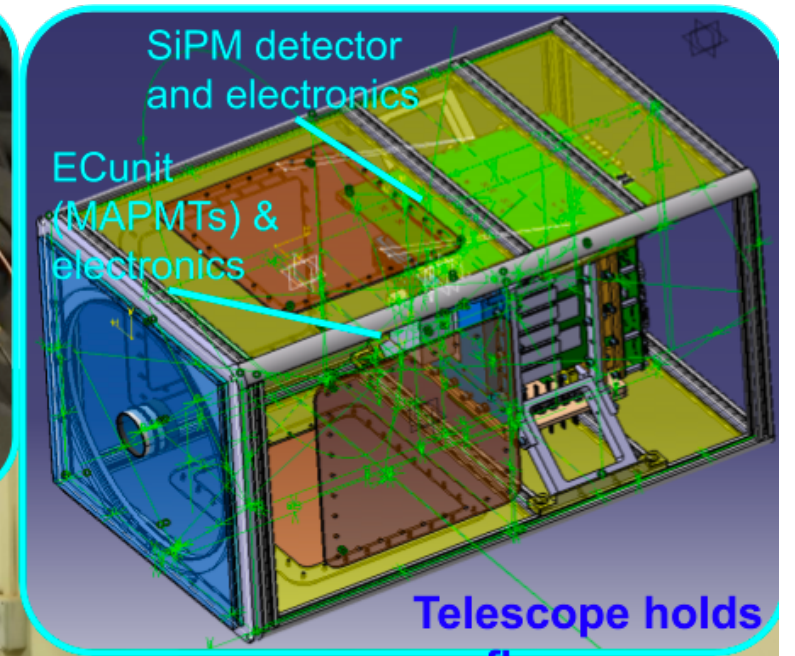
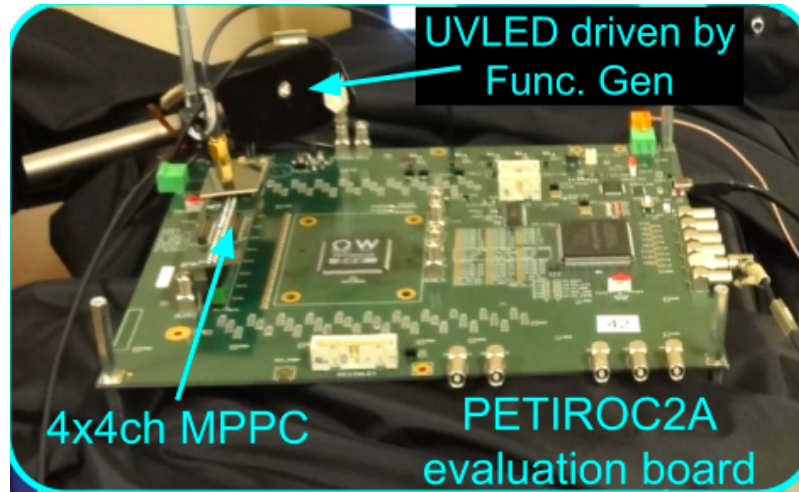
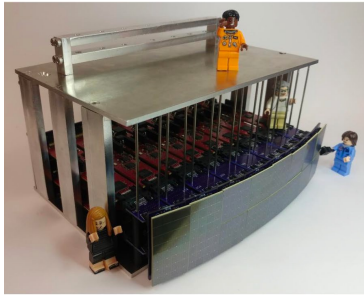
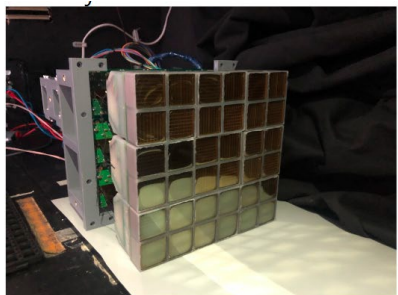
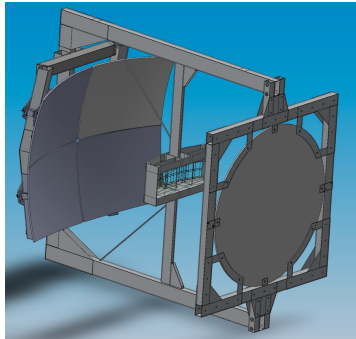
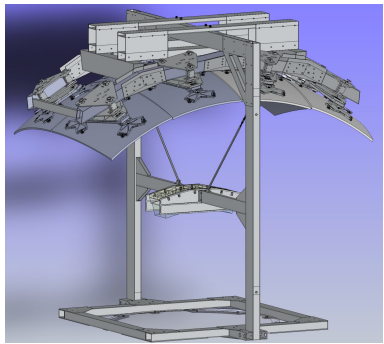
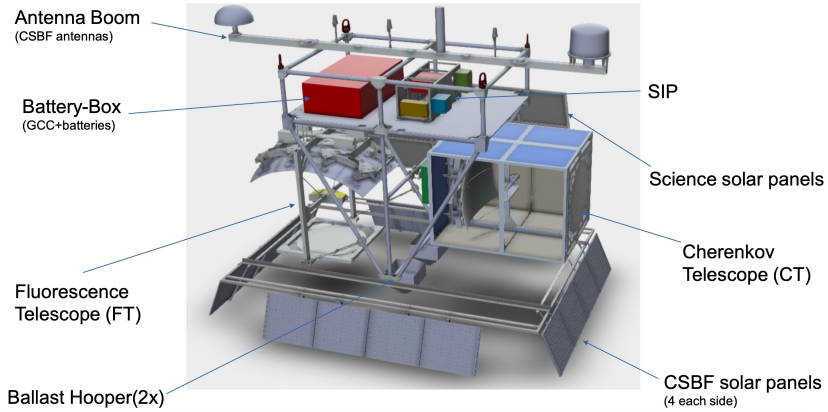


Mini-EUSO



We are upgrading our setup to test the trigger logic for EUSO-SPB2 mission

EUSO-SPB2



THANK YOU