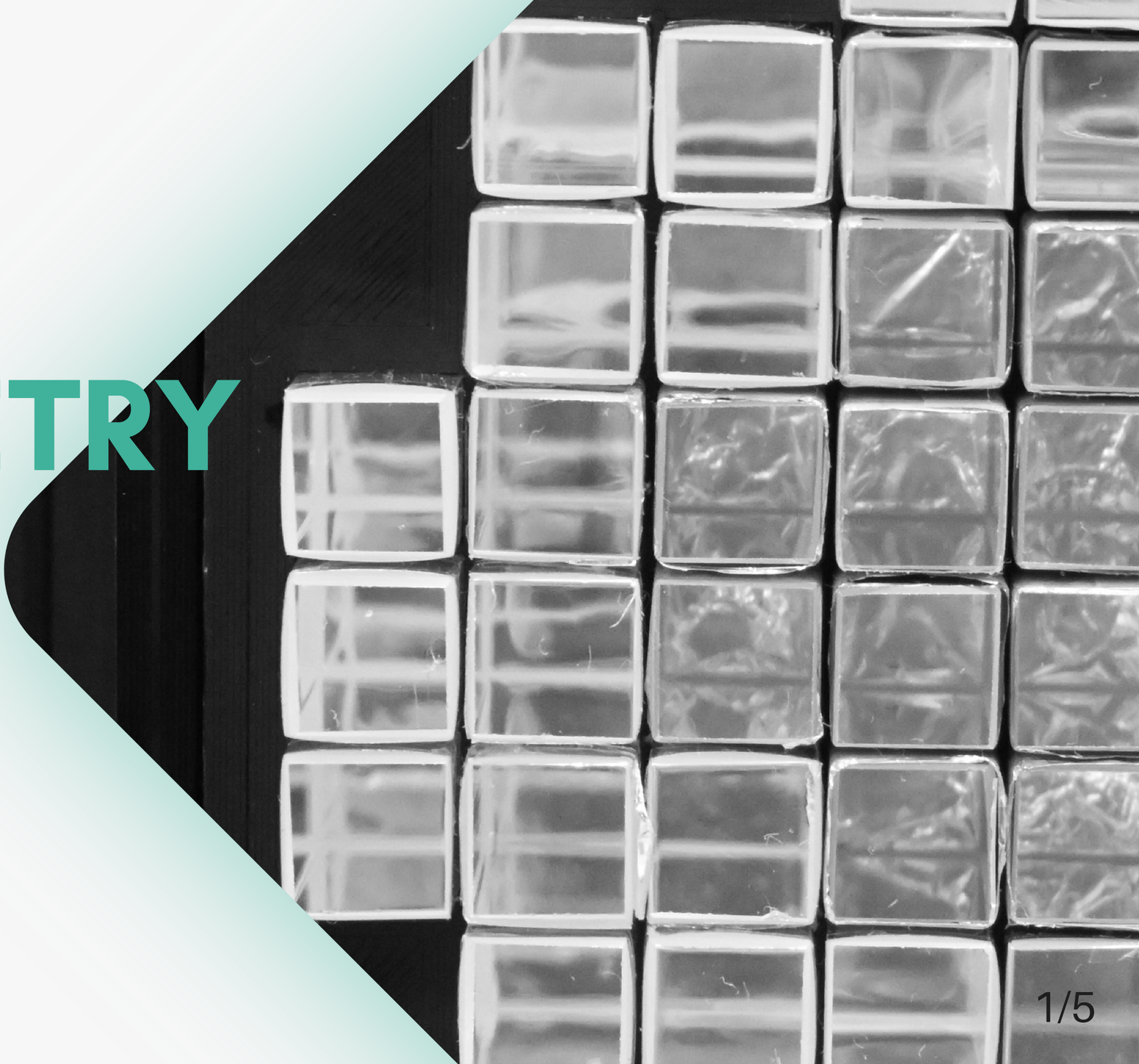
GRASPA 2026

DUAL-READOUT CALORIMETRY

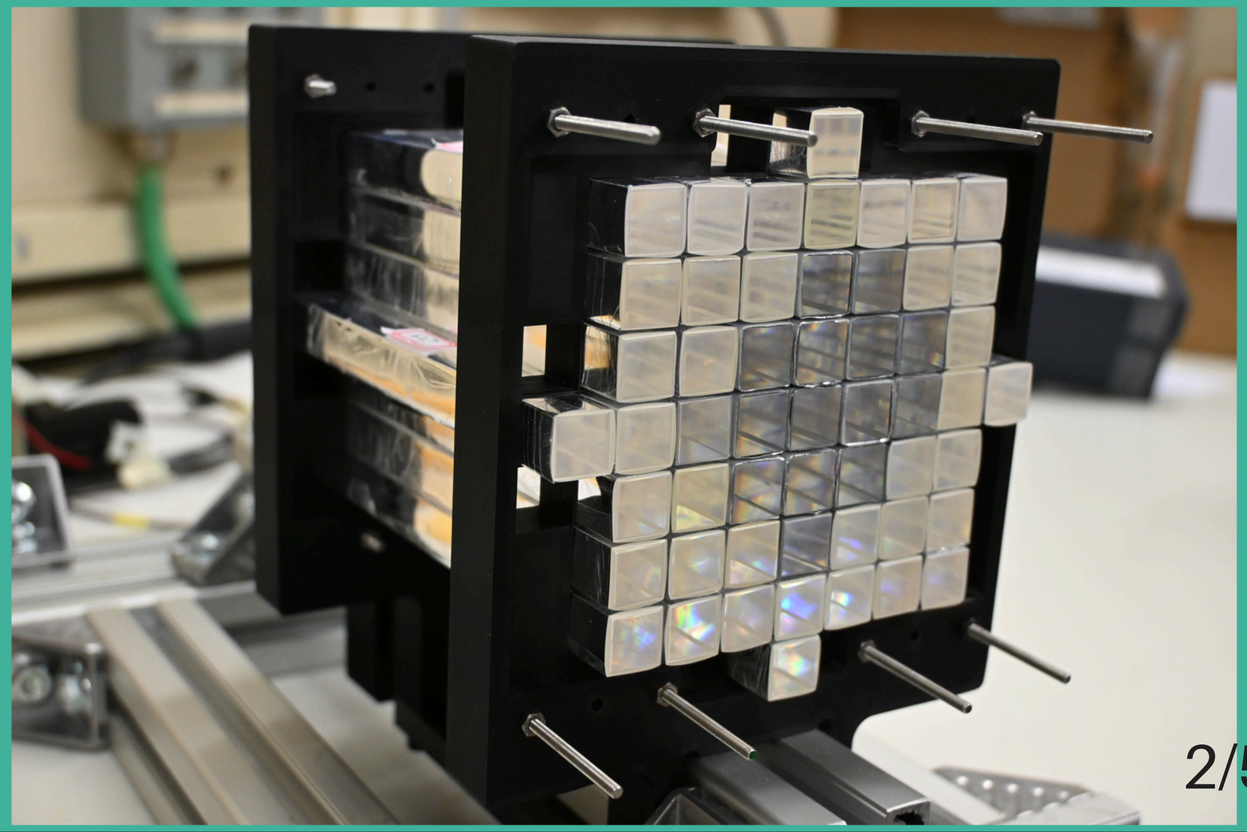


Guglielmo Cremona

Undergraduate student at
Univerità Milano-Bicocca

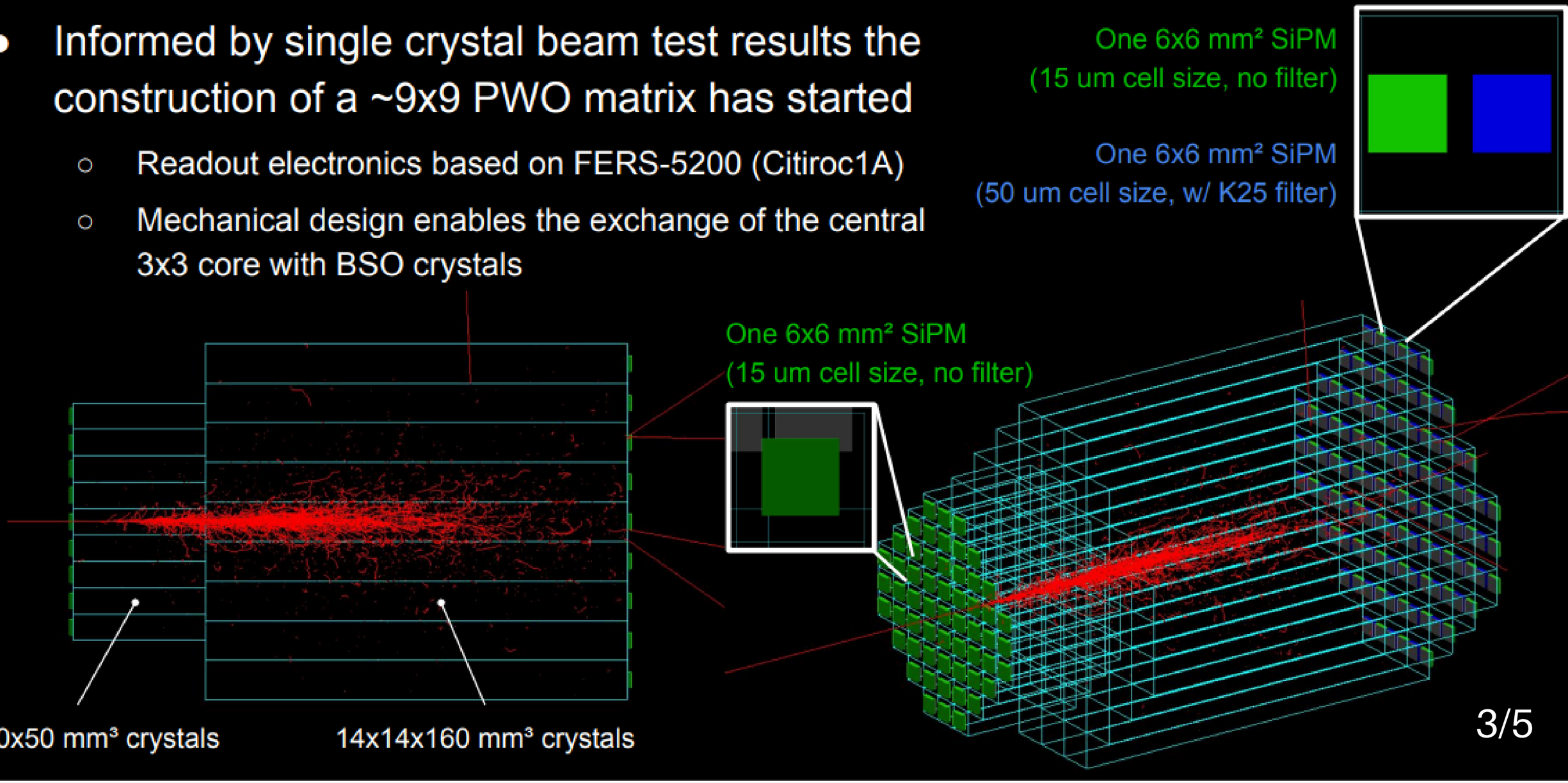
WHAT DOES DUAL-READOUT CALORIMETRY MEAN?

- Measure both Scintillator and Cherenkov light at the same time
- Get a better energy resolution



Towards a **full-containment prototype**

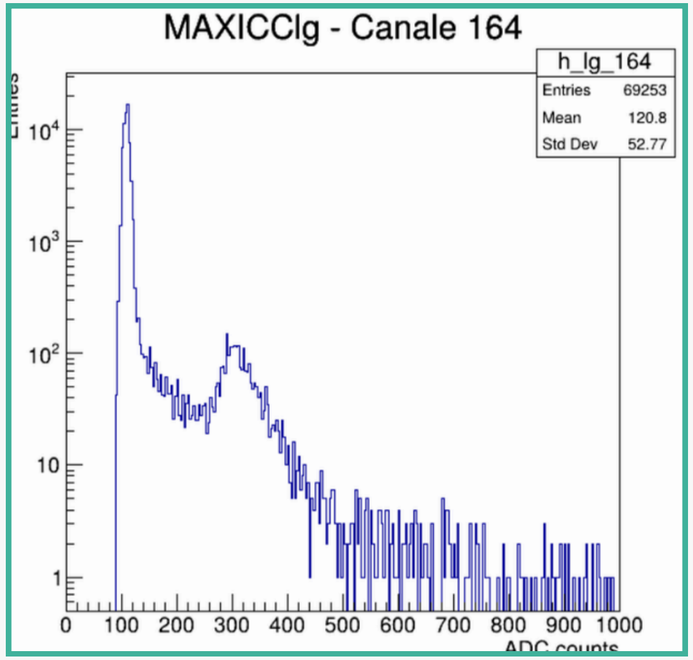
- Informed by single crystal beam test results the construction of a ~9x9 PWO matrix has started
  - Readout electronics based on FERS-5200 (Citiroc1A)
  - Mechanical design enables the exchange of the central 3x3 core with BSO crystals

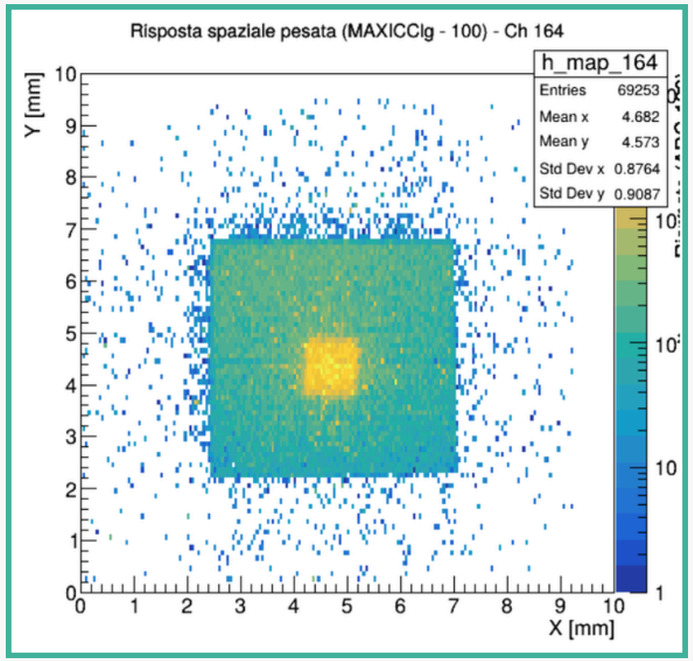


WHAT I AM WORKING ON

Using data from a beam test done in June

- Calibration using muon runs
- Study linearity using electron runs





THANK YOU!