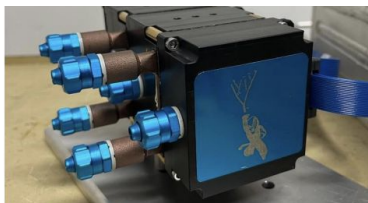
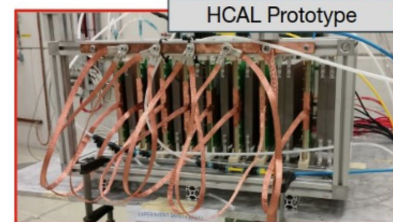


**CRILIN:**

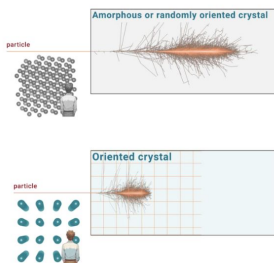
- semi-homogeneous
- cherenkov  $\text{PbF}_2$  crystals with UV-extended
- high granularity
- longitudinal segmentation (optimize for MuCol)
- time resolution better than 25 ps for energy above 3 GeV

**HADRONIC****MPGD-HCAL:**

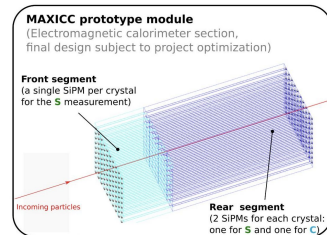
- sampling calorimeter
- MPGDs as active layers
- high granularity
- radiation hardness
- cost-effective for large area instrumentation
- R&D born for MuCol

**OREO:**

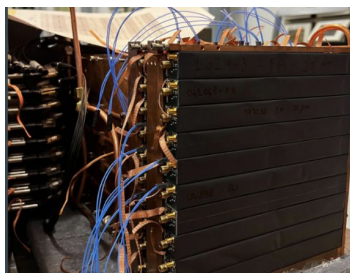
- homogeneous
- oriented scintillating crystals ( $\text{PbWO}_4$ ):
  - reduced  $X_0 \rightarrow$  compact EM shower
- application: accelerator-based experiment, space-borne HE&VHE  $\gamma$ -ray satellite

**DUAL-READOUT****MAXICC:**

- homogeneous crystal
- longitudinal segmentation for PID ( $6 X_0 + 16 X_0$ )
- high granularity
- dual readout capability:
  - readout of Cherenkov and scintillation light from same active element
- application: FCC-ee

**POKER:**

- homogeneous
- $\sim 100 \text{ PbWO}_4$  crystals
- $32 X_0$  to fully contain the shower
- application: project for light Dark Matter production with fixed, active target experiment (the calorimeter itself)

**HiDra:**

- high granular dual-readout fiber calorimeter
- cherenkov and scintillating fibers inserted in stainless steel capillaries
- application: FCC-ee

