

EP R&D WP3 – Calorimetry and Light Based Detectors

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Sub-Workpackages

WP3: Calorimetry + Light based



LAr

Electrodes, σ_t , high ionisation rates, feedthroughs

In/organic scint.

Tile-cal, hi segm. fibre cal., rad hard

Hi granularity Si

CMS HGCAL
CLIC, FCC-ee/hh



RICH

- Light weight mirrors
- Low temp photosensor housing

SciFi

- Fibre light yield
- Fibre production techniques



Advanced scint.
(Crystal Clear)

- **WP3.1: Noble-Liquid Calorimetry (talk by M. Higuera)**
 - Noble-liquid calorimetry for FCC-ee (and FCC-hh) experiment
 - 1 fellow since 2020: Read-out electrodes, electronics, performance
 - 1 fellow (shared with cryolab) since 2020: Feedthroughs
- **WP3.2: Scintillator-Based Calorimetry (talk by M. Salomoni)**
 - 1 fellow since 2020: LHCb ECAL Upgrade R&D
 - 1 student since 2019: WP3.2.1: Crystal Clear
 - 1 fellow (shared with ATLAS) starting 2022: FCC HCal R&D – Sci/Pb/Steel TileCal
- **WP3.4: RICH (talk by F. Keizer)**
 - 1 fellow (shared with LHCb) since 2021: LHCb RICH Upgrade R&D