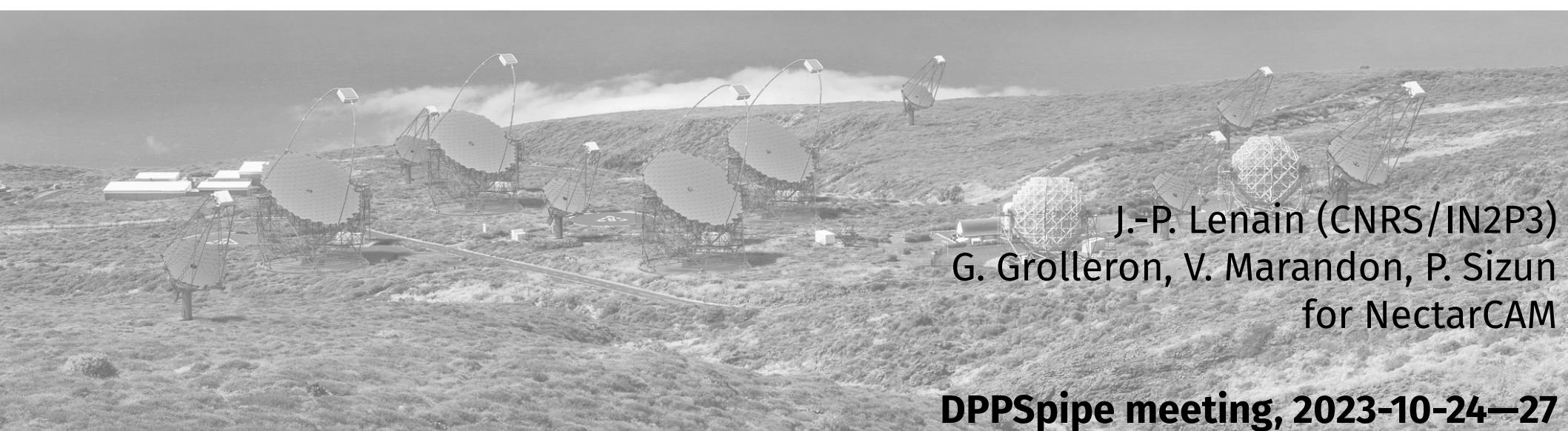


# ctapipe with NectarCAM



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for NectarCAM

**DPPSpipe meeting, 2023-10-24—27**

- Repository for development of analysis and calibration specific to NectarCAM data  
→ *how specifics does it need to be ?* E.g. **Caroff et al. (2019)** SPE calibration algorithm implemented therein, we'll investigate **spefit**
- GitHub repository  
<https://github.com/cta-observatory/nectarchain>
- Built on top of **ctapipe**
- **conda** installable
- Containerizable with **Singularity** (see [this recipe](#))
- Ideally, should be as thin a layer as possible between raw data and processing with **ctapipe**

- Repository for development of analysis and calibration specific to NectarCAM data  
→ *how specifics does it need to be ?* E.g. **Caroff et al. (2019)** SPE calibration algorithm implemented therein, we'll investigate **spefit**
- Containerizable with **Singularity** (see [this recipe](#))  
→ [GitHub CI workflow](#) implemented with automatic container builds (useful to check compatibility with external packages) and published on GitHub Container Registry on releases.
- Ideally, should be as thin a layer as possible between raw data and processing with **ctapipe**
- Note: Plugin reader **ctapipe\_io\_nectarcam** includes preliminary R0→R1 calibration  
With EvB v6 → towards a common LST/MST reader ?

- Few examples:
  - Code organization: in the process of splitting data flow & algorithms → ctapipe **components**, see [PR #78](#)
  - DQM: towards a web application for visualization of data quality monitoring

