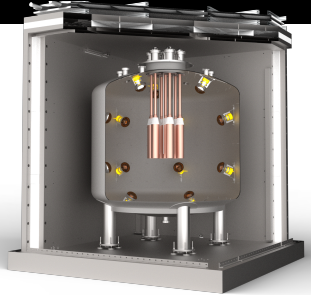




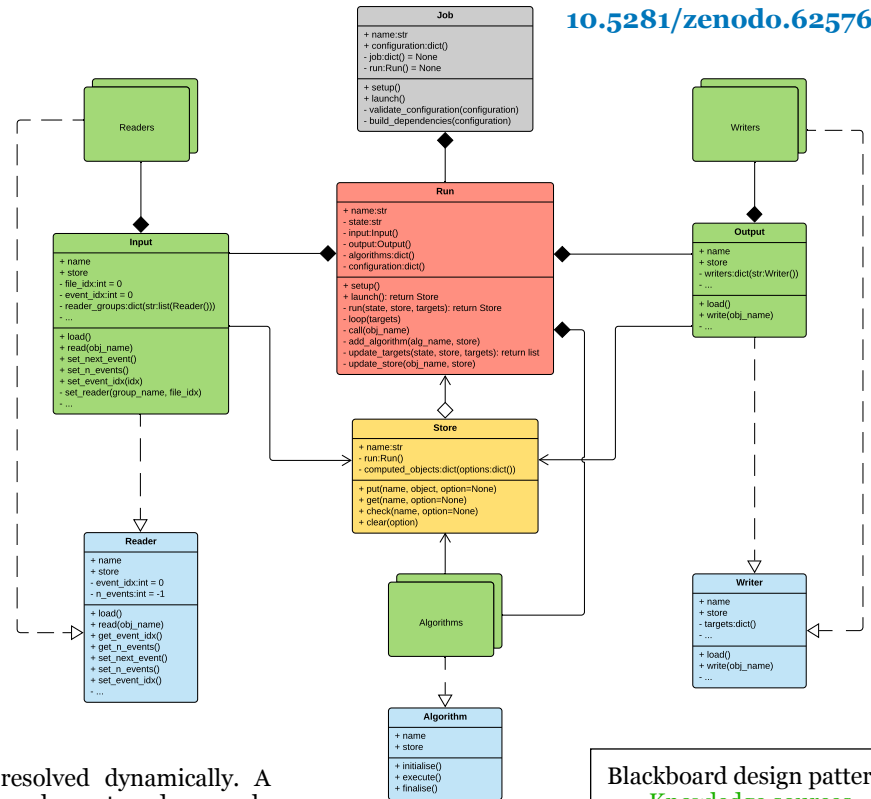
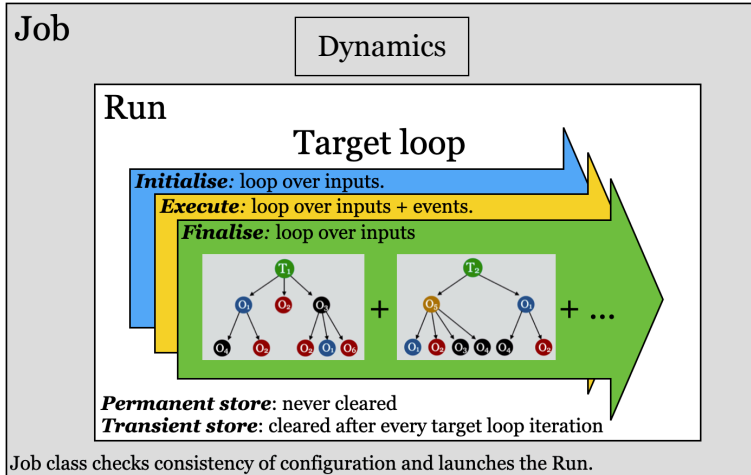
Pyrate: a novel system for data transformation, reconstruction and analysis for the SABRE experiment



Developed entirely in python for the SABRE dark matter direct detection experiment (~20 analysers). About 50 channels.

- **Data transformation:** e.g. binary to ROOT.
- **Event reconstruction:** Event building, calibrations, waveform digitisation for MC etc.
- **Data analysis:** event selection, event weighting, plotting.

10.5281/zenodo.6257646



Blackboard design pattern:
 Knowledge sources
 Blackboard
 Control



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