Towards DRD on Calorimetry Organisational Aspects

DRD Calo Proposal Team

2nd Calorimeter Community Meeting – April 2023

From input-proposal to work structure

- Input proposals
  - 23 received
  - These input-proposals will constitute the basis of the upcoming steps but the door is not closed
  - Contact us in case you still would like to send a proposal and/or join the DRD in another way
- Rich R&D program ahead of us
- The first task is to class the input proposals into work areas
  - It seems that so far the tracks provide a robust framework to start with
  - Some regrouping might be necessary
- The second task is to identify topics that are common to all work areas (Transversal activities)
  - Based on mixture of information extracted from input proposal and own experience
- These two considerations yield the following preliminary structure

DRD Calo – Basic structure

Management: Gouvernmental and executive bodies including Speakers Bureau (→ Dissemination)

Work Areas: Will deliver monitorable results and enable R&D with shared interest

- Technologies will emerge from input-proposals
  - Maybe after some minor regrouping

Full integrated sampling Calorimeters ~Track 1	Liquified Noble Gas Calorimeters ~Track 2	Optical Calorimeters ~Track 3
· Technology 1 · Technology 2 · ….		· Technology 1 · Technology 2 · ….

Transversal Activitites (common collaboration interests):

Materials	Photodetectors, Electronics and DAQ	Testbeam Facilities snd Infrastructure	Detector Physics, simulation, algorithms and s/w tools	Industrial connection + technological transfer

- Transversal Activities are vital for the success of the collaboration
- Transversal Activities will also ensure relations with other DRD

DRD Calo – Towards DRD Calo Proposal

- The third task is to identify “monitorable” items
  - These are the ones that will be mainly reviewed
  - As of today quite a long list of milestones and deliverables in input-proposals
    - These will have to be condensed and aligned
    - ... but they are useful for internal monitoring

- Type of deliverables?
  - Overall goal is studying feasibility of calorimeter technologies for future facilities
  - One type of deliverable is prototypes
    - Some prototypes could be completed early (2024-2026)
  - Further deliverables could be specification/design studies on:
    - ASICs
    - Photodetectors
    - Materials
    - Software
    - Integration strategies
  - The DRD will evolve and the prospects on future activities (i.e. > 2026) will become clearer along the way
    - Therefore, an “outlook document” at an appropriate point might be useful
      - Either as internal task or as official deliverable

DRD Calo – Next Steps

- The previous proposals set the boundary conditions for the drafting of the DRD Calo proposal
  - More intense review of input-proposals
  - Continuing discussion in proposal team
  - Exchange with submitters of input-proposals
    - **Scrutinisation of research program and indicated resources**

- Draft of DRD Proposal until beginning of June
  - Circulation among proposal team and submitters

- 2nd draft until middle of June
  - Presenting to higher level bodies?

- Beginning of July 2023 – Submission of DRD Calo proposal

- Summer/Early Autumn
  - Implementation of feedback from proposal review
  - Detailed structure of work areas and transversal activities
  - Consolidation of organisation
    - Management structure
    - Including roadmap on assigning names to the different boxes
  - Understanding of which kind of documents do we need (MoU/MoA) and when
  - Maybe a 3rd Community Meeting

- 1st January 2024 – DRD on Calorimetry in place
  - Kick-off Meeting Spring 2024

DRD Calo – The Overall Goal