# **Expressions of Interest**

## **FCC-PED Detector Concepts**

**December 11** 

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## **A Few Points**

**Reminder: Calls** 

Response so far

Satellite meeting FCC workshop, January 17

# **EOIS**From the Call

With this we encourage the federation of international efforts focussing on one or more technologies for a given sub-detector. These activities are expected to be well connected to technological R&D pursued in the framework of the CERN-anchored DRD collaborations and complement these with a focus on system integration aspects at the level of the sub-detector as well as its integration into one or several overall detector concepts. They should support the R&D with simulation and optimisation of system performance and, together with detector concept groups, provide guidance to the R&D via feedback on system design and performance.

Eols should be compact documents (2-4 pages) including

- The scope of planned activities for the next 3-5 years
- The Partners (Institutes) and their expertise
- The names of one or two contact persons
- The connection with technological activities in the DRD framework
- The engineering and simulation connections with concept groups
- References to relevant more detailed documentation of the technologies

We plan to prepare a document combining the EoIs received in response to this call for a submission to the ESU process, together with an executive summary. Groups may choose to submit their EoIs independently as stand-alone contribution in addition to, or instead of inclusion in the combined PED submission. For inclusion in combined submission, or for reference in the summary, we are asking to send them in final or close-to-final form by end of January 2025.

## Reminder

#### The Calls

### Sent out Calls for Expressions of Interest on October 11

• one on detector concepts, on on sub-detectors - Eols should refer to each other

**Simultaneously:** opened a **web page** for interested parties to sign up, declaring intent to prepare an EOI

- to foster cooperation between groups and facilitate common EoIs
- soft deadline mid November

#### About 70 Eols received so far

proposed some grouping

Satellite **meeting** to FCC Physics Workshop (**Jan 17**)

short presentations on upcoming EoIs

**Deadline Jan 31** for submission to **PED** 

for editorial feedback and inclusion in combined FCC submission summary

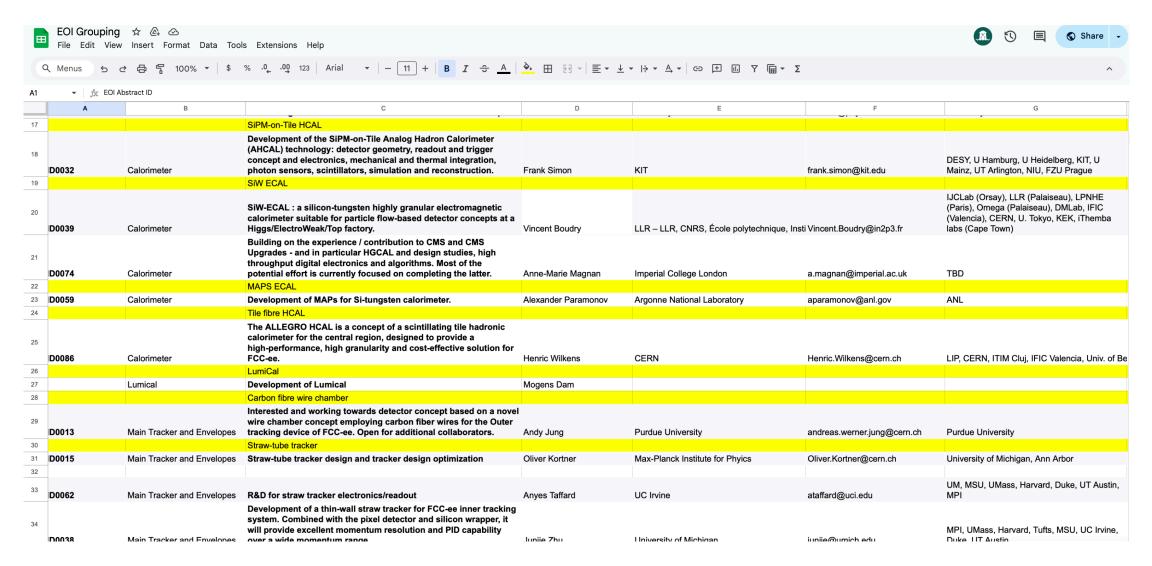
**Deadline Mar 31** for submission to **ESU** 

submission of executive summary and attached Eols (optional)

Editorial team: Srini Rjagopalan, Guy Wilkinson, with MD, MAP, FS

## **Grouped Eols**

https://docs.google.com/spreadsheets/d/1iHTDN1TJpfk\_sDrYm7HrY8zuQxfDZj4MtFooziXq5rQ/edit?usp=sharing



## Satellite Meeting, Following FCC workshop at CERN

Friday January 17, 0900-1300

## Ask each Eol group to present

 sounds challenging - but worked well at US FCC, MIT

## **Encourage groups to merge**

- ideally merge Eol documents
- can also combine presentation only
- merged Eols get more time

## Prepared template

DESY.

distribute in the next days

#### <ID No> <Your Technology Title>

#### **Contact Persons:**

- Name 1, email
  Name 2, email
- Name 2, email
  Name 3, email

#### Collaborating Institutes & expertise/facilities:

- Institute 1
- Expertise 1, facility 1
- Expertise 2, facility 2
- Institute 3
  Expertise 3, facility 3

#### Connections with DRDs:

DRDa, WPx: ...DRDb, WPy: ...

#### Connections with Concept Groups:

Engineering/Simulation studies with concept NN

References: [1]: A detailed write up of technology A, NIM-A, vvv, pppp, 2024; [2]: A detailed write up of technology B, JINST, vv, ii, 2021; [3]: Our Eol draft in overleaf < link>

#### <ID No> <Your Technology Title>

Planned activities for the next 3-5 years

Eye candy, prototype results, ...

- 2025: Task 1
- 2026: Task
- 2027: Task 3

<For each merged Eol you may add one extra slide. >

# Back-up