Minutes DevDet preparatory meeting 19/8/09

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1. THE EC CALL

162 ME total, 35 subjects, 20 projects are expected to be approved (~8 ME/project).

Max of 10 ME/ project (-10% / devdet)

Submission deadline: Dec 3rd, 2009

Under the topic Physics, Astronomy, Nuclear and Particle physics, 4 topics:

1.1.32 on Research Infrastructures for Nuclear physics: was already on previous call and get better results than devdet event if not selected

1.1.33 on Detectors for Future Accelerators: new devdet

1.1.34 on Research Infrastructures for dark matter search, neutrinos and gravitational waves: Need to check overlap or not with the neutrino part of devdet

1.1.35 on Research Infrastructure for high energy astrophysics.

One single project per topic is expected. Should check there will be no call on 3D with industry partners → *Steinar to check*

2. REVIEW OF DEVDET REFEREE COMMENTS

Main comments are about:

- Concerns about R&D priorities in term of schedule with respect to European strategies for particle physics.
- Some unbalance in the sharing with too large resource towards LC component (35 %) : If we want to maintain the same request we should clearly present it in a different way (WP10) with respect to devdet
- Concern about the need to support seven irradiation facilities. Should try to reduce it
- JRAs are outstanding, particularly studies of radhad 3D integrated smiconductors, simulation tool (alignment, pile-up) and EUVIF.

3. REVIEW OF DEVDET WORKPACKAGES

<u>WP1: DevDet project management.</u>

CERN will act as coordinator

The cost should include about 1.5-2 FTE for admin personnel, plus include funding for several CERN associates.

Aim is to reduce budget with respect to devdet (was 800 kE requested)

WP responsible: CERN EU Office

WP2: Common software tools.

This WP should be reshaped, specially Task 2 (make it more coherent) and Task 3 (check is still timely and if yes present it differently).

WP responsible: to be found, Gehde (DESY) suggested as he was identified last time.

WP3: Network for Microelectronic Technologies for High Energy Physics.

Tasks 1 and 2 could be discarded. Task 3 (3D integration) could be extended, maybe coordinated by VIPS. Could be become task within larger package called detector integrated electronics, need to be discuss larger.

A second task or most probably a new WP was mentioned concerning technology roadmap for sensors, electronics, power systems, SiPM etc .. wide ranging and linked to industry needed for our field : deliverable will be a document.

WP responsible: H.G.Moser and P.Sharp mentioned, Sharp and Finnish ILO to be contacted by Steinar.

WP4: Project office for Linear Collider detectors.

Discard this WP, but include some of the tasks in other WPs.

WP5: Coordination office for long baseline neutrino experiments.

Discard this WP, but include some of the technical tasks in other WPs. It has been mentioned the importance of some coordination of the test beam facilities for this community.

WP6: Transnational access to CERN test beams and irradiation facilities

OK

WP7: Transnational access to DESY test beam

OK, but need to emphasize who are the users of this beam line. Get statistics of DevDet users for the last few years.

WP8: Transnational access to European irradiation facilities.

Separate the discussion test beams/irradiation facilities. Argue properly why so many facilities are needed and improve the argumentation about those selected. Try to make some statistics of the use of those facilities by the DevDet Community.

Budget to be reviewed.

WP responsible: Check if previous leader, E.Cortina, would be available. Otherwise check if Ljubljana or Prague would take it.

WP9: Construction of irradiation facilities at CERN.

Do not include Task 1: GIF++ construction.

Check how to reshape Tasks 2 and 3 and reduce budget accordingly.

WP responsible: Mar will check with M.Moll and the UK groups involved in this WP.

WP10: Test beam infrastructures for fully integrated detector tests.

Split this WP. Discussed the following possibilities:

Option1/ Technology-oriented breakdown

- WP called High Precision Tracking (containing DevDet Task 10.2);
- WP on calorimetry (containing DevDet Task 10.3);
- WP for LC activities (containing DevDet Task 10.1 and some LC Project Office business, especially task 4.3) with emphasis on combined vertical integration (EUVIF)

In this option the last one contains only LC activities but in the two first will be also included some detector aspect from SLHC, Super B but with separate tasks. The aim is not present a larger synergy between LC and non LC community.

Option 2/ Beam lines Breakdown:

- 1 beam line or stand-alone test across experiments; (~WP11 of devdet)
- 1 beam line for combined tests (needed for LC); (~WP10 of devdet)
- 1 low E (<25 GeV), clean beam for neutrinos, maybe including SLHC RICH detectors.

Remove Task 4 (possibly move).

Should understand how and where, whatever is the option, gaseous/micro gas pattern detectors are included (→ H. Taureg ?)

WP11: Detector prototype testing in test beams

- Will become part of one of the splitting above.

ADDITIONAL ACTIONS

- Steinar to organize a meeting with National Contact Points for mid September.
- Propose names for the project, if possible related to Future Detectors by sending email to the current preparation group.
- Prepare a meeting in Brussels to discuss the proposal with D.Pasini for the second half of September.
- Steinar to find a representative from CMS
- Next meeting proposed for Monday 31/8, 13-16h.