

# Status of EUDET proposal

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# Introduction

**EUDET: Detector R&D towards the International Linear Collider is a bid within the Sixth Framework Programme for a contract for Integrating Activity implemented as an Integrated Infrastructure Initiative (I3).**

**The key idea is I3, e.g. a generic DAQ system, fits. I was not convinced that all other parts were I3 - they were more standard R&D. More ambitious in future?**

**Need “matching” funds, which complicated issue for us.**

**Proposal split into:**

## **Networking activities**

**NA1: Management of I3**

**NA2: Detector R&D network, DETNET**

## **Transnational access activities**

**TA1: Access to DESY test beam facility**

**TA2: Access to detector R&D infrastructure**

## **Joint research activities**

**JRA1: Test beam infrastructure**

**JRA2: Infrastructure for tracking detectors**

**JRA3: Infrastructure for Calorimeters**

# Global bid to the EU

**Requested about 8.7 MEUR for a four year grant to start 1 January 2006.**

**Involving 21 institutes with money requested split up as follows:**

**NA1: 400 kEUR, NA2: 700 kEUR**

**TA1/2: 500 kEUR**

**JRA1: 1.6 MEUR, JRA2: 2.6 MEUR, JRA3: 2.9 MEUR**

**JRA3 coordinated by F. Sefkow (DESY) and C. de la Taille (LAL, Orsay)**

# **Our original bid to the EU**

## **Technically, R&D**

**Applied for funds to provide DAQ system for prototype systems built.**

**Build on R&D done within PPARC grants to “mass produce” for real systems.**

**Use of PCI cards in PC farm, linked to electronics via a switch.**

**A complete system to be ready by September 2008 (revise?)**

## Administratively

Due to uncertainties in award from PPARC, UCL put in a bid as an administrative cover for other DAQ interested universities: ICL, RHUL, Cambridge, Manchester.

**Bid for:**

- **23.2 kEUR for travel for (mainly) associates.**
- **225 kEUR for 36 months new RA. (75 kEUR/year overestimated?)**
- **150 kEUR for consumables (equipment)**
- **(80 kEUR for indirect costs)**

**Total ~ 480 kEUR. We clearly have money from PPARC to match this.**

# Feedback from the EU

Refereed and graded out of 5 for

- **Fundamental objectives (4.5)**
- **Networking activities (4.6)**
- **Transnational access activities (4.1)**
- **Joint research activities (4.4)**

**“The review panel judges that JRA3 includes the accumulation of a body of detailed data, an effort which lies beyond the scope of integrated infrastructure initiative. The panel consequently recommends that the budget allocated to JRA3 be substantially reduced.”**

**EU would welcome involvement of CERN and Italian institutes as associates.**

**Awarded 7 MEUR; largest cuts to come from JRA3.**

# Revised bid

**Calorimeter work, JRA3, has been descoped (-30%) in comparison with JRA1 (-10%) and JRA2 (-20%).**

**Revised UK bid to:**

- **14 kEUR for travel for (mainly) associates.**
- **150 kEUR for 24 months new RA. (75 kEUR/year overestimated?)**
- **100 kEUR for consumables (equipment)**
- **(53 kEUR for indirect costs)**

**Total ~ 320 kEUR. This will supplement PPARC money which had been cut and give us extra.**

**Still flexible to change money around between consumables and staff.**

# Implications for CALICE-UK

**Need to share out money; obvious for consumables as we need to build working systems.**

**Not so obvious for 24+ months RA. Extend RAs? Need to discuss.**

**Maintain UCL as an administrative cover for CALICE-UK; no extra admin. for us, but a lot saved for you. Four other UK universities stay as associates.**

**Fund UCL RA from personnel money from EU and use (“contract out”) PPARC money for other institutes.**

**Only one institute and one RA has to fill in timesheets and write yearly reports, etc..**

**With PPARC money, perform R&D for a concept; with EU money will actually put this into practice with a real prototype. Solidify our proof of concept and allow us to make a stronger report for the TDR.**