

Advanced and Novel Accelerator Development: discussion



Coordinator: Brigitte CROS

Laboratoire de Physique des gaz et
des Plasmas – CNRS - UPXI

<http://www.lpgp.u-psud.fr/operations/interaction/anad.htm>

Workplan: 2005 – mid 2006

❖ Monitor and coordinate studies on short pulse injectors

- ❖ Compare status of all-optical and RF injectors in view of recent progress (2004 T4 to 2005 T1)
- ❖ MS: Workshop (2004 T4) → ID: **report (2005, T2)**

❖ Extended plasma wave excitation

- ❖ Evaluate existing laser guiding techniques (2005 T1 to T4)
- ❖ MS: database of existing techniques → ID: **document (2005 T4)**
- ❖ Identify optical diagnostics (2005 T1 to 2006 T2)
- ❖ MS: database → ID: **document (2005 T4)**

❖ Electron beam focusing and transport

- ❖ Identify main issues (2005 T1 to 2006 T2)
- ❖ MS: workshop (2005 T2)

❖ Coordinate European proposals

- ❖ MS: meeting (2005 T2) → ID: RTN proposal (2005 T3)

European proposals: RTN

❖ **Current RTN call (closed 041202, 45 M Euros)**

« specifically dedicated to the provision of training/transfer of knowledge in **interdisciplinary** and **intersectorial** research projects and not simply projects bringing together various sub-disciplines. »

❖ **Next RTN call (open 050518 – closed 050908, 220 M Euros) Contracts 1st half 06**

❖ How to improve the EAGLE proposal

❖ Update → more credibility

❖ New group on beam handling from accelerator physics ?

European Proposals: other instruments

- ❖ **JRA, DS** : Do not seem possible in FP6
- ❖ **NEST** (New and Emerging Science and Technology) is a new activity in FP6; next call date ?
 - ❖ **ADVENTURE** projects are 'visionary' research projects that will develop new scientific and technological opportunities in areas identified by the researchers themselves;
 - ❖ **INSIGHT** projects assess new discoveries or newly-observed phenomena which could indicate risks or problems to society;
 - ❖ **PATHFINDER** initiatives are focused on specific, highly challenging objectives in emerging scientific and technological fields, and involve groups of complementary projects.

European Proposals: ADVENTURE

<http://www.cordis.lu/nest/adventure.htm>

❖ The key requirement of ADVENTURE projects is that they must be very **challenging and ambitious**. They aim to develop **new scientific knowledge** and **technological capabilities** with very **high potential impact**, using unconventional and innovative approaches.

❖ ADVENTURE projects are implemented as STREPs (Specific Targeted Research Projects) and Co-ordination Actions.

❖ ADVENTURE STREPs can provide funding both for the research activities themselves and for the necessary co-ordination and management of the project. It is anticipated that the Commission's financial contribution for ADVENTURE projects could in most cases be in the range of **800k€ to 2M€**.

❖ The duration of ADVENTURE projects will typically be between 2 and 3 years