

Dear Colleagues,

I talked to most of you and I have been observing the email traffic.

In order to move more efficiently on Monday I will prepare a PPT that will delineate in my view the guidelines to optimize our chance of winning in spite of a dreadful fund shortage and intensive competition.

A. To start, we need a very good application package to win this grant. It is the applications, science and societal that will justify the need to adopt a new laser architecture with unbeatable characteristics and high price tag. We count on Bernhard and Roy Alexan to put together a very nice Work Package (WP1).

B. We need to validate the two approaches: the parallel P(WP2) the APD(WP2) at the 10-100mJ, 10kHz and demonstrate scalability to the few joule level for electron acceleration i.e. in the regime where the generation of sub GeV particles can work. Both approaches have pros and cons. They are both seriously studied in the context of seriously funded experiments .

C. A work package WP4 should focus on new optical techniques, components, fibers amplifiers, transport fibers and the like along the line of what ORC is proposing.

D. Since one of the main goal is high energy physics we need to demonstrate a concept of "gaz jet " that can work at 10kHz with Joules of energy (this represents the accommodating few tens of kW. Not easy!). A reasonable effort needs to demonstrate that it is feasible. The Oxford team could be interested by this workpackage, WP5.

E. For your consideration I propose the following preliminary budget distribution. A total budget of 3.6 M€ , could be divided in the following way, Jena 1M€, ORC 1M€, EP 1M€ and CERN 600K€.

In my mind the ORC (WP5) should orient its research after concerting with the other WPs in such a way that it could significantly enhance Jena and EP's efforts. Here it should be easy to display a collaborative spirit.

Also I would suggest CERN 9 (Bernhard)to discuss with Oxford (A. Seryi and the CEA R. Alexan) a workable distribution with credible work packages.

I consider that once this budget is set. The budget distribution and the definition of a new partner list should unfold and undertaken at the local level making it easy to write the proposal.

For me the main goal remains to win the grant in a way that we could get selected for the next step: the Preparatory Phase of a large scale infrastructure.

Heureux to work with you all.

See you Monday

Best regards

Gérard

--