

ILC-HiGrade

2nd Scientific and Annual Meeting

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ILC-HiGrade – Reminder



- ILC-HiGrade is the Preparatory Phase project of the European Commission to work towards the realization of the **International Linear Collider**.
- The project is one of 30+ projects on the ESFRI list (via C.E.R.N. Council strategy) technically mature to be constructed.
- It addresses
 - a key technical component that affects the cost, i.e. SRF gradient with a goal of running the ILC at 31.5 MV/m
 - the formation of governance and financial structures in Europe that enable the realization of the project. The European Commission recognizes that this is a process with global implications

ILC-HiGrade – Brief Account of Activities



- Start of project Feb 1, 2008
- Kick-off meeting, Aug 29, 2008
- End of First Reporting Period: Jan 31, 2009
 - Report was submitted ... and accepted
 - Financial statement still pending
 - rejected because methodology of accounting was not accepted for one partner
- End of Second Reporting Period: Jan 31, 2010
 - Annual reports are due within 60 days
March 31st, 2010
 - Proceeding according to established procedure (see later)



ILC-HiGrade: Spending Profile



- Overall budget: 5 M€
 - Flat spending profile
 - Key investments in cavities à la European XFEL
 - purchase only towards the end of the contract
 - Consequently most of the expenditure went into preparation for the cavity purchase and quality control
- Have to make sure that we are ready for the arrival of the cavities and fast processing

Delays have to be foreseen due to involved tendering process

Time aspects



- Preparatory Phase Projects
 - sLHC-PP
 - Consolidation of the LHC and Preparation of the LHC Upgrade
 - ILC-HiGrade
 - ILC readiness
(also influenced by European XFEL)
 - SKA
 - Square Kilometer Array
 - The project can be staged
 - ...

Delay of LHC leads to extended latency - projects have to be re-phased

The only other global project on ESFRI list.

ILC-HiGrade Work Packages



- WP1: Management of the Consortium
- WP2: Integration and optimization of the European contribution within the global GDE organization as the ILC project moves through the GDE Engineering Design Phase
- WP3: Ensure that the characteristics and importance of the ILC, and its place within the world of science and research, is widely disseminated to the peoples of the European Union, and their governments
- WP4: Investigate features and develop possible schemes of governance for the ILC, exploiting expertise of CERN (LHC) and DESY (HERA) in international projects
- WP5: Prepare and investigate possible European sites for ILC construction
- WP6: Investigate and monitor the production process that yields high-gradient cavities with high yield. Establish the process in industry
- WP7: Optimization of the coupler conditioning at reduced cost
- WP8: Demonstrate suitability of tuner design in tests. Establish a cost-effective tuner production

Work Packages: Involvement of Institutes



Work Package No	Work package title	Type of activity	Lead beneficiary	Person months	Start month	End month	Coordinator
WP1	Management	MGT	1	48	1	48	DESY
WP2	Coordination of European GDE Activity	COORD	6	74	1	48	Oxford
WP3	Dissemination and Outreach	COORD	6	88	1	48	Oxford
WP4	Governance	SUPP	6	87	1	48	Oxford
WP5	ILC Siting in Europe	SUPP	1	42	1	48	DESY
WP6	Cavities	RTD	1	148	1	48	DESY
WP7	Couplers	RTD	4	54	1	48	LAL
WP8	Tuners	RTD	5	30	1	48	Milan
	Total			571			

Work Packages – Change of Coordinators

Work Package	Title	Coordinator	Lead Institute
WP1	Management	Elsen	DESY
WP2	GDE Coordination	Foster <i>N.Walker</i>	UOXF.DL
WP3	Dissemination	Foster <i>P.Royole-Degieux. & B.Warmbein</i>	UOXF.DL
WP4	Governance	Foster	UOXF.DL
WP5	Siting	Bialowons <i>J Osborne</i>	DESY
WP6	Cavities	Aderhold <i>L. Lilje</i>	DESY
WP7	Couplers	Lacroix	LAL
WP8	Tuners	Pagani	INFN

new

new

ILC-HiGrade and EC interest



- Preparatory Phase of a project refers to "preparing its realization"

- The EC is encouraging stakeholders to participate and held a series of meetings

- ECRI2010 Conference on RI in Barcelona

- ILC-HiGrade represented in poster session

- HEP prevalent

Poster also sent to ASEPS



Conclusion



- ILC-HiGrade plays a key role in preparing the ILC project in Europe
 - Visibility in European Strategy
 - at the vanguard of technological development for the key technology
- This meeting will expose particularly
 - the progress in governance and outreach and include the aspects of European siting
 - the progress in SRF