

FKPPL Project report (2011)

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ID: Title	ILC/CALICE					
Project Le ad ers	French Group			Korean Group		
	Name	Title	Affiliation	Name	Title	Affiliation
	Roman Poschl	DR2	LAL	<u>Jong-Seo Chai</u>	Pr.	SKKU
Funding from France within LIA						
Description		Euro/unit	Nb of units	Total (euros)	Provided by: *	
Travel to workshop		1000	3	3000	IN2P3	
Total				3000		
Funding from Korea						
Description		Won/Unit	Nb of units	Total (Won)	Provided by: **	
Total						
Additional funding (outside LIA)	Funding from France			Funding from Korea		
	Provided by: ***	Type	Euro	Provided by: ***	Type	Won

* For example: IN2P3, CEA. ** Korean University or Institute. *** French Embassy, STAR, PICS, other grants...

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Summary of 2011 activities	<p>The project aims at the development of front end electronics for highly granular calorimeter. 2011, the focus is currently on the design and the realisation of a challenging thin and flat PCB. A workshop with about 25 Korean and French participants has been held in May 2011 at SKKU. At this workshop the status of the project was reviewed. Beyond that, a test setup conceived and used at LAL for the readout circuits was mounted in a workshop at SKKU. This technology transfer included an ASIC, a test board for the ASIC and the installation of corresponding labview software. The existing PCB design has been extended by the students of SKKU going from a board hosting four circuits to a board hosting 5 circuits. Now at the end of 2011, the Korean groups have established contacts with industrial partners for the production of the board. The result will be a PCB which will be produced in the first quarter of 2012. The project is to be pursued in 2012. Particular aims are the test of the 'SKKU board' in beam tests at DESY and the integration of the SKKU cyclotron into the CALICE R&D program. The continued training of the SKKU team on CALICE front end electronics is as well part of the research program (See application for 2012).</p>
Publica- tions since 2007	<ul style="list-style-type: none">- CALICE Collaboration, J. Repond et al., <i>Design and Electronics Commissioning of the Physics Prototype of a Si-W Electromagnetic Calorimeter for the International Linear Collider</i>, JINST 3, P08001 (2008), arXiv:0805.4833v1 [physics.ins-det].- CALICE Collaboration, J. Repond et al., <i>Study of the interactions of pions in the CALICE silicon-tungsten calorimeter prototype</i>, JINST 5, P05007 (2008), arXiv:1003.2662v1 [physics.ins-det].- CALICE Collaboration, C. Adloff et al., <i>Effects of high-energy particle showers on the embedded front-end electronics of an electromagnetic calorimeter for a future lepton collider</i>, Nucl. Instrum. and Meth. A 654 (2011) 97, arXiv:1102.3454 [physics.ins-det].- R. Pöschl, A large scale prototype for an SiW electromagnetic calorimeter for the ILC-EUDET module, Nucl. Instr. and Meth. A 617 (2010) 113.