

# FKPPL Project application (2012)

*Red info should be replaced by the appropriate text in black*

<b>ID: Title</b>	<b>ALICE MUON PROJECT</b>					
<b>List of participants</b>	<b>French Group</b>			<b>Korean Group</b>		
	<b>Name</b>	<b>Title</b>	<b>Affiliation</b>	<b>Name</b>	<b>Title</b>	<b>Affiliation</b>
	<u>Leader:</u> Dupieux, Pascal	Dr.	LPC-IN2P3	<u>Leader:</u> Baek, YongWook	Dr.	GWNU & LPC-IN2P3
	Rosnet, Philippe	Pr.	LPC-IN2P3	Lee, Sungchul	Pr.	GWNU
	Crochet Philippe	Dr.	LPC-IN2P3	Kim, Do-Won	Pr.	GWNU
	Lopez Xavier	Dr.	LPC-IN2P3	Oh, Sunkun	Pr.	Konkuk
	Porteboeuf Sarah	Dr.	LPC-IN2P3	Ahn, Sang-Un	PhD. Stud.	Konkuk & LPC-IN2P3
	Barret Valerie	Dr.	LPC-IN2P3	Lee, Jooho	M.S.Stud.	GWNU
<b>Requested LIA specific funding from France</b>						
<b>Description</b>	<b>Euro/unit</b>	<b>Nb of units</b>	<b>Total (euros)</b>	<b>Requested to: *</b>		
Post-Doc YongWook Baek	5,3/month	12	63,600	IN2P3		
Visit to Korea (*2 pers.)	90/day	8	700	IN2P3		
Travels to Korea (*2 pers.)	900/travel	2	1,800	IN2P3		
Total						
<b>Requested funding from Korea</b>						
<b>Description</b>	<b>Won/Unit</b>	<b>Nb of units</b>	<b>Total (Won)</b>	<b>Requested to: **</b>		
AHN Sangun's stay at CERN	4,800,000/month	12	57,600,000	KISTI		
LEE Jooho's stay at CERN	3,000,000/month	6	18,000,000	NRF		
Staying expenses of Ph.D's at CERN or in Korea	2,000,000	5	10,000,000	NRF		
Travel to/From CERN from/to Korea	2,000,000	5	10,000,000	NRF		
Total						
<b>Additional funding</b>	<b>Additional funding from France</b>			<b>Additional funding from Korea</b>		
	<b>Provided by or requested to ***</b>	<b>Type</b>	<b>Euro</b>	<b>Provided by or requested to</b>	<b>Type</b>	<b>Won</b>
	LPC Clermont-Fd	Equipment	1,000			

\* For example: IN2P3, CEA. \*\* Korean University or Institute. \*\*\* French Embassy, CNRS Egide,.....

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<b>Summary of Project</b>	<p>ALICE is the detector devoted to the Physics of heavy ion collisions at LHC. The “ALICE MUON” project in the framework of this LIA is a collaboration, between Korea and France, on the Trigger System of the ALICE Muon Spectrometer (MTR, for Muon TRigger) as well as on the Physics program with the Muon Spectrometer. The Physics program with the Muon Spectrometer is focused on open heavy flavor and quarkonia measurements, with the goal of characterizing the properties of the so-called quark gluon plasma (QGP) phase of nuclear matter at extremely high energy density. On the experimental side, the MTR is now completely installed, fully commissioned and operational. It was operated successfully with a very high data taking efficiency all along 2010 and 2011 with various LHC beams and energies.</p> <p>Up to October 2011, the common work of run coordination (and detector expertise) for MTR has been carried out by Dr Baek, attached to the LPC Clermont-Fd but on site at CERN. This work is done in close collaboration with the MTR project leader (Dr. Pascal Dupieux from LPC Clermont-Fd) and the groups of LPC Clermont-Fd, INFN Torino and Subatech Nantes. The renewal of the contract of Dr Baek for the period Nov. 2011-2013 requested by the MTR Project leader (Dr P. Dupieux, LPC Clermont-Fd) to IN2P3/CNRS, has been accepted.</p> <p>M. SangUn Ahn will obtain his Ph.D degree in the beginning of December 2011. The thesis supervisors are Pr. Oh and Pr. Rosnet, from Konkuk and Blaise Pascal University, respectively. Then he may continue working on the Upsilon production analysis as a post-Doc in Korean group. The financial support for his stay at CERN will be requested to KISTI by the Korean institutes. For the Upsilon analysis, he will be available to calculate more accurate Upsilon cross-section with a larger statistics in p-p but an extension to the study in Pb-Pb (end of 2011 data) or p-A (LHC 2012 data, to be confirmed) could be also foreseen.</p> <p>M. Jooho Lee of GWNU will continue his Master course in 2012. During the last year, he learned how to operate the MTR, the basic performances of ALICE detectors as well as the ALICE-ROOT framework for the data analysis using GRID computing tools. M. Lee will write a master thesis with the result of this work. He plans to continue his study as a Ph.D student in the Muon group starting in 2012. He plans to work on the ALICE Muon spectrometer upgrade (if this project becomes an official ALICE upgrade project, the decision will be taken in early 2012), physics simulations and data analysis. During his stay at CERN Dr. Baek will be his local supervisor; M. Ahn and the physicists of LPC group will also help him in the data analysis.</p>
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