

# Overview of IN2P3 contribution to ATF2 & MDI - Goals for 2008-2010

## Meeting motivations & organisation

Philip Bambade  
LAL-Orsay

IN2P3-KEK collaboration meeting, Annecy,  
15-17 October 2007

# Main present French ILC activities

- Linac technology: SC cavities (preparation & assembly),  
(DESY & All XFEL couplers (LAL)  
All XFEL cryomodule preparation (Saclay + Italy)

- Injectors, sources (Compton based e+)
- MDI & BDS ↔ ATF2 (experimentation)
- Detector R&D: EM calorimetry (CALICE),  
Silicon sensors (vertexing &  
→ tracking), TPC
- Physics studies, phenomenology
- Communication & outreach
- International project framework and governance

Established R&D programs ■■■■ ► contribute to global ILC project  
Emphasis on feasibility demonstration and risk reduction

LAPP: Mechanical support & stability of FD  
Characterisation & impact in beam operation  
A.Jérémie, F.Cadoux, N.Geffroy  
B.Bolzon + ANR post-doc

LLR: Background evaluation (algorithm, GEANT4)  
Instrumentation & experimentation for validation  
M. Verderi, H.Guler

LAL: Beam tuning and control  
Commissioning & operation / optimisation  
ILC Machine Detector Interface & BDS topics  
P.Bambade, J.Brossard, C.Rimbault, O.Dadoun  
Y.Rénier, M.Alabau (Valencia), S.Bai (IHEP)  
+ ANR post-doc

KEK direct partner + UK, DESY, SLAC, CERN, Valencia

# Present support

ANR (2007-2010) : 400k€ project grant to fund

- 1) three 2-year post-docs at LAL, LAPP and LLR
- 2) equipment money for stabilisation program at LAPP

AIL France - Japan : travel & equipment transport

- 1) 20k€ for LAL-LAPP-LLR in 2007-08, ? in 2008-2009

AIL France - China : support for ATF2 including to KEK

- 1) 3k€ for LAL in 2007, 6k€ requested in 2008

*AIL funds within IN2P3 institutional funds...*

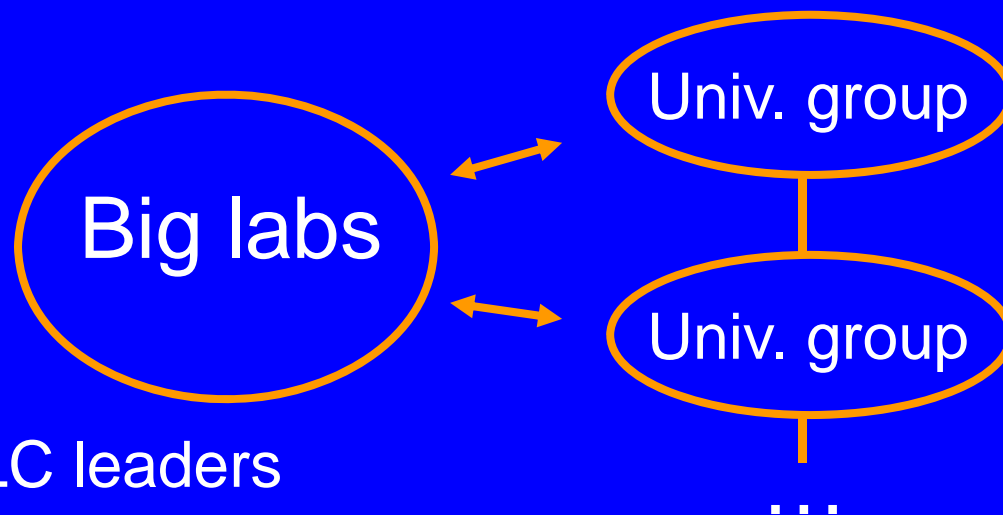
IN2P3 “institutional” and other :

- 1) permanent & temporary staff (e.g. 2 contracts @ LAL)
- 2) additional travel & equipment (30k€ @ LAL in 2007)
- 3) Eiffel ministerial 1-year PhD grant for S. Bai @ LAL
- 4) Orsay university 3-year PhD grant for Y. Rénier @ LAL

# Goals for 2008-2010

- Significant impact on ATF2 commissioning and beam experimentation, characterisation of IP stability, understanding and control of beam-induced backgrounds → presence at KEK...
- Research within international collaborative environment for accelerator R&D, as HEP expts.

- tasks
- practical learn by doing
- publish or perish...
- research bids / contracts
- academic endeavor



Training impact : future ILC leaders

# Meeting agenda

## Monday 15 October

Introductory sessions

chair: P. Bambade

IP stable supports

chair: A. Jérémie

*layout, Shintake, FD, Monalisa, → installation & characterisation plans...*

“SLAC session 1”

chair: P. Bambade

*ATF-EXT studies, ATF2 within BDS-KOM tasks...*

## Tuesday 16 October

Backgrounds

chair: M. Verderi

Machine Detector Interface

chair: T. Tauchi

Preparation for ATF2 commissioning

chair: S. Kuroda

“SLAC session 2”

chair: P. Bambade

*Flight simulator, → organise shift period for experimentation at KEK...*

## Wednesday 17 October

Instrumentation and concluding discussions

chair: T. Tauchi

Closeout session : summaries + time to prepare 2008-2009 AIL