

# *ATF2 Commissioning Team*

*Toshiyuki Okugi*

*2008 / 6 / 18*

*ATF2 Software mini-workshop*

*LAL, Orsay*

## *Main Task for the Commissioning Team*

*The main task of the commissioning team is to achieve the 35nm vertical beam size at ATF2 IP.*

*- ATF2 beam commissioning team will be organized from April 2008.*

*-The meeting will be held once a month.*

*The 1<sup>st</sup> meeting was held in ATF2 project meeting at Novosibirsk (2008 May).*

*- In the meeting, we discussed the commissioning plan and schedules.*

*The 2<sup>nd</sup> meeting will be held in the ATF2 software mini-workshop at LAL (2008 June).*

*- Discuss the organization and management of software tasks*

*- Discuss the detailed commissioning plan and schedules*

*From 3<sup>rd</sup> meeting, we will discuss with WebEX.*

## *Commissioning Team Members ( Tentative )*

<b>Institute</b>	<b>Leader</b>	<b>member</b>	<b>contribution</b>	<b>Study Item</b>
KEK	Toshiyuki Okugi	Shigeru Kuroda		
		Kiyoshi Kubo		
		Toshiyuki Okugi		
Tokyo univ.	Yoshio Kamiya	Not yet decided	2 for each year	Shintake monitor
Tohotku univ.	Tomoyuki Sanuki	Tomoyuki Sanuki	0.14 FET	
		Taiten Okamoto	0.56 FET	
IHEP	Jie Gao	Sha Bai	2 for each year	
LAL	Philip Bambade	Philip Bambade	12 from 2008.10	Emittance tuning studies
		Yves Renier	11 from 2008.10	
		Filimon Gournaris	8 from 2008.11	
LAPP	Andrea Jeremie	Andrea Jeremie	2 weeks in 2008.10	
		Benoit Bolzon	6 - 12 from 2008.9	
Daresbury	Deepa Angal-Kalinin	Deepa Angal-Kalinin	2 for each year	
		James Jones	2 for each year	
		Tony Scarfe	2-3months for 08-09	
Oxford univ.	Philip Burrows	Javier Resta Lopez		FONT
		Tony Hartin		
		Students		
SLAC		Mark Woodley		
		Glen White		

***RHUL, CERN, KNU ... ?***

## *The list of beam commissioning team tasks*

*Software preparation at ATF2 final focus line*      *ALL*

*Beam deliver to the dump with small beam loss*

*from November 2008*

- *Commissioning of magnet PS*
- *Commissioning of magnet mover and guarder*
- *Beam delivery to the dump*
- *Realize the good injection efficiency*

*SLAC, KEK, ...*

*LAPP, SLAC, KEK, ...*

*KEK, ...*

*KEK, ...*

*Cavity BPM commissioning*

*RHUL, SLAC, KNL, KEK, ...*

*from November 2008*

*Since BPM center and position sensitivity should be fixed by the beam information, the beam commissioning group must communicate with cavity BPM group.*

# *The list of beam commissioning team tasks ( continued .. )*

## *Optics Modeling*

*from January 2009 ??*

- *Measurement of the quadrupole strength error* *KEK, SLAC, ...*
- *Optics modeling of the extraction and ATF2 beamline* *KEK, SLAC, ...*

## *Beam diagnostics at extraction line*

*from January 2009 ??*

- *Dispersion correction* *KEK, SLAC, ...*
- *Coupling correction* *KEK, SLAC, ...*
- *Emittance growth study from DR to EXT* *KEK, LAL, Daresbury SLAC, ...*

## *Beam size tuning at ATF2 final focus line*

*All*

*from April 2009 ( when the Shintake monitor will be ready )??*

*The final goal of the commissioning team.*