

_____ Wel come to the 3rd EUROFEL DS3 _____
_____ Techni cal Meeti ng _____



EUROFEL Design Study - Work Group DS3

3rd DS3 Technical Meeting

ELETTRA Seminar Room + room 82, Bldg. T

Trieste, July 18th 2006





Previous DS3 meetings



EUROFEL is an FP6 Design Study – 2005 to 2007

• May 2005

EUROFEL DS3-DS4 TASK MEETING

Cea-Saclay, bât. 522, room 136

May, 16th – 17th 2005

• Nov 2005

AGENDA for 1st Annual EUROFEL Workshop

November 07 - 09
2005

14:00 – 16:10

Individual Task Meetings

DS1: Amphithéâtre Lehmann, LAL, bât. 201

DS2: Salle 110, bât. 209D, Lure

DS3: Salle 101, LAL, bât. 201

DS4: Salle 208, adjacent to Amphithéâtre, LAL, bât. 201

DS5: Salle M. Magat, Lab. de Chimie Physique, bât. 349,
1st Floor

DS6: Lab. de Chimie Physique, bât. 349, 2nd Floor



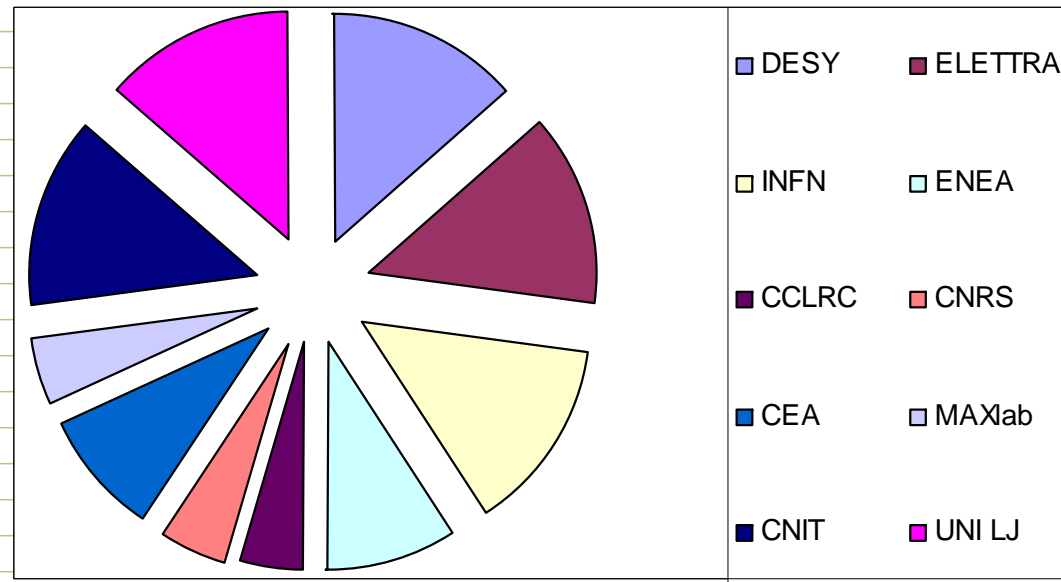
3rd DS3 Technical Meeting

18/07/2006

M. Ferianis



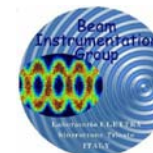
DS3 workgroup now



10 labs with 22 participants



Participants



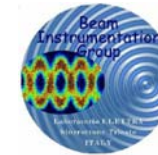
Participant list*:

1.	H. Schlarb	DESY Hamburg
2.	F. Ludwig	DESY Hamburg
3.	F. Loehl	DESY Hamburg
4.	A. Gallo	INFN LNF
5.	M. Bellaveglia	INFN LNF
6.	I. Spassovsky.....	ENEA Frascati
7.	G. Hirst	CCRLC UK
8.	D. Garzella	CEA-DRECAM F
9.	P. Hollander	CEA-DRECAM F
10.	A. Bogoni	CNIT Pisa
11.	L. Banchi	ELETTRA
12.	F. Rossi	ELETTRA
13.	A. Bettarini	ELETTRA
14.	M. Ferianis	ELETTRA
15.	M. Danailov	ELETTRA
16.	G. Deninno	ELETTRA
17.	E. Allaria	ELETTRA
18.	F. Curbis	ELETTRA
19.	L. Badano	ELETTRA
20.	M. Vidmar Rad. & Optics Lab.	Uni LJ SLO
21.	T. Korosec	Uni LJ SLO
22.	M. Plesko	Cosylab LJ SLO
23.	A. Hasanovic	Cosylab LJ SLO





Agenda

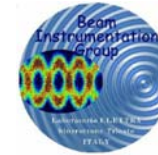


09:30 - 09:40	M. Ferianis	Welcome message, ELETTRA D53 activity overview	10'
09:40 - 09:55	G. Hirst	CCLRC activities on D53	15'
09:55 - 10:10	H. Schlarb	Status report on laser based synchronization system at FLASH	15'
10:10 - 10:25	F. Ludwig	Optical-to-RF mixer, first results	15'
10:25 - 10:40	F. Loehl	Latest results on high precision beam phase monitor	15'
10:40 - 11:00	M. Bellaveglia	SPARC Photoinjector synchronization system and time jitter measurements	15'
11:00 - 11:30	Coffee Break	30'
11:30 - 11:45	D. Garzella	CEA DRECAM activities on D53	15'
11:45 - 12:00	A. Bogoni	Short introduction to CNIT laboratory in Pisa	15'
11:45 - 12:00	L. Banchi	Synchronization of Optical Oscillators	15'
12:15 - 12:30	F. Rossi	Characterization of the optical link for the Optical Timing system of FERMI	15'
12:30 - 12:45	M. Vidmar	Short introduction to the Rad. & Optics Laboratory	15'
12:45 - 13:00	I. Spassovsky	ENEA activities on D53	15'
13:00 - 14:30	Lunch at the ELETTRA Cafeteria	90'
14:30 - 14:45	M. Ferianis	D53 management: II Interim Report, Deliverables ...	15'
14:45 - 15:00	G. Deninno	D54 activity at ELETTRA	15'
15:00 - 15:15	M. Plesko	Short introduction to Cosylab	15'
15:15 - 15:50	Discussion, any other business	45'
15:50 - 16:00	M. Ferianis	Closing remarks	10'





The EUROFEL DS3 working team at/wi th ELETTRA



The ELETTRA team on DS3:

- Mario F.
- M. Danailov
- Luca Banchi (started on Sept' 05)
- Fabio Rossi (started on Jan' 06)
- A. Bettarini (sharing with BOOSTER project)

Contacts with:

- DS4 at ELETTRA: De Ninno, Allaria ...
- M. Veronese on FERMI Diagnostics ...

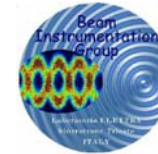
External collaborations with:

- CNIT Pisa (A. Bogoni)
- UNI LJ (prof. M. Vidmar) + Docs





The EUROFEL DS3 sub-tasks



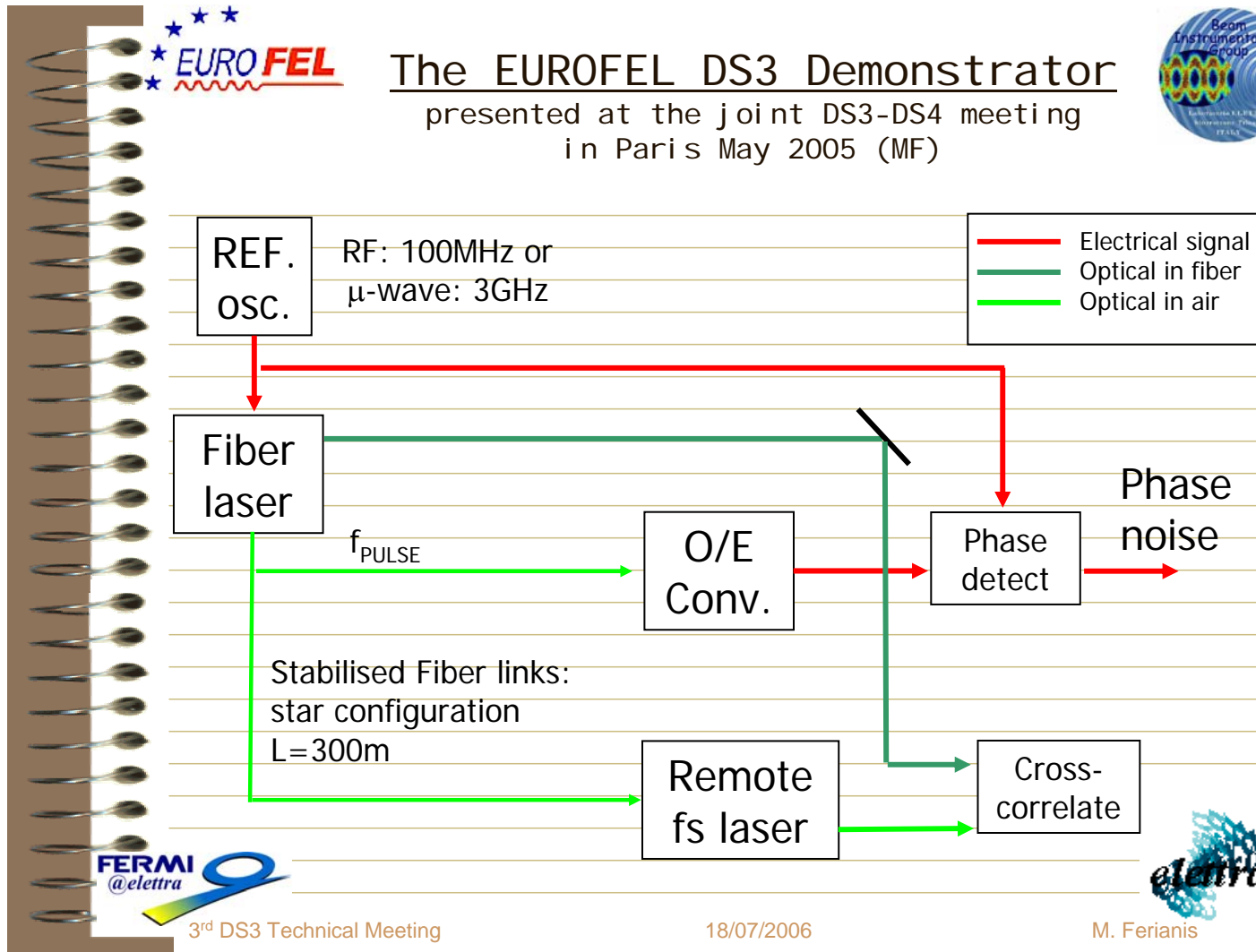
The sub-tasks currently running at ELETTRA are:

- fs jitter measurement laboratory:
 - *Mario and Luca*
- PLL for Optical Oscillator synchronization to RF ref
 - *Luca*
 - *Alessandro for the digital controller*
- Fiber Optic test bed set-up at the current ELETTRA LINAC + O/E receivers
 - *Fabio*

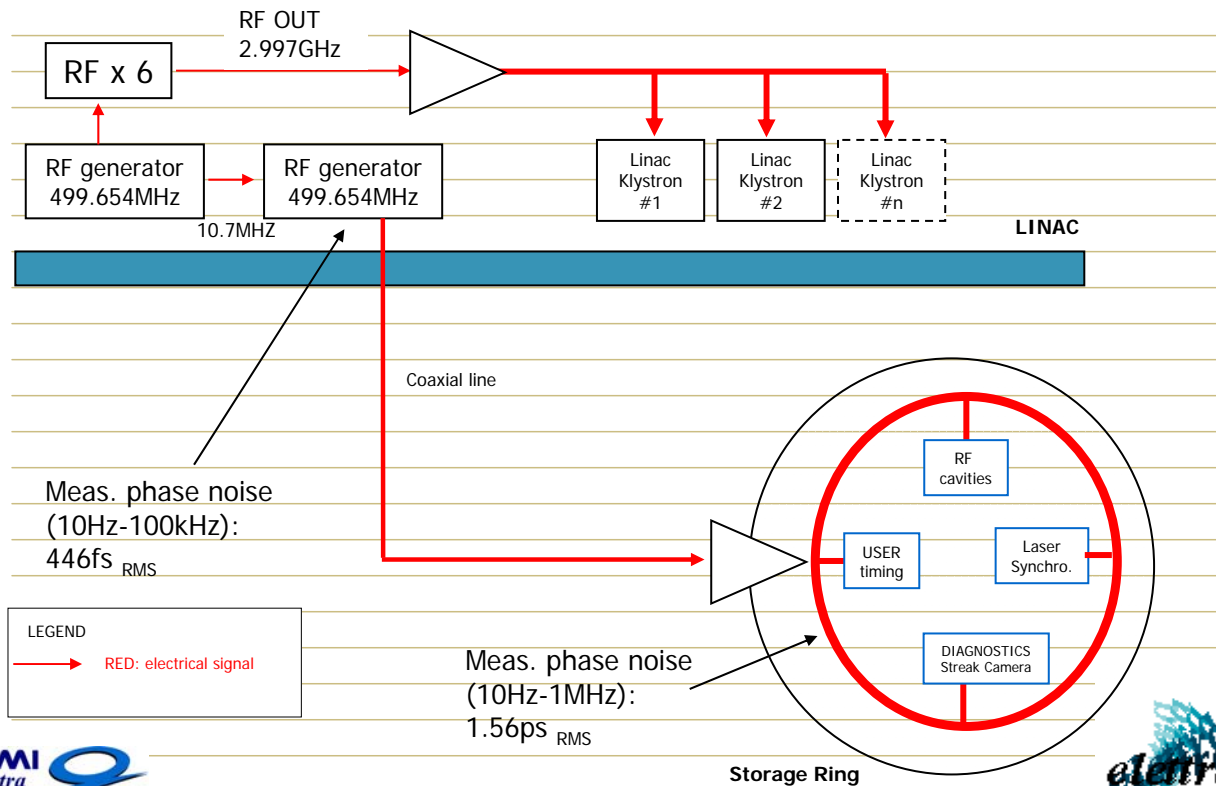
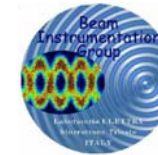
Externally, two main activities:

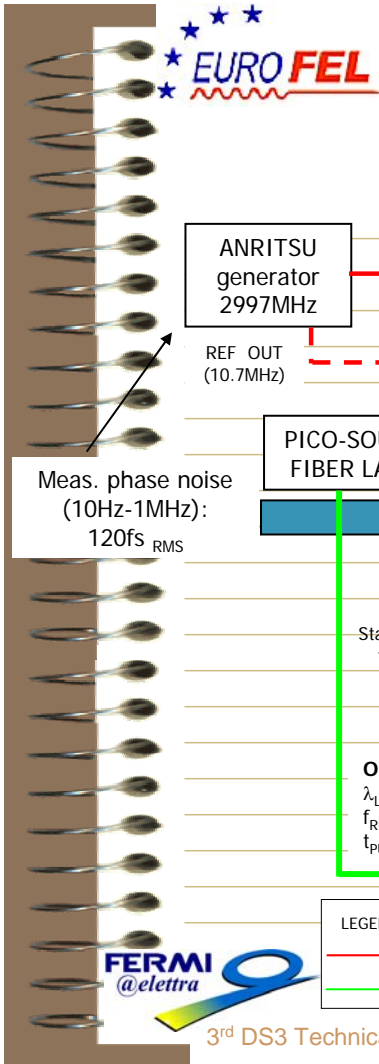
- Fiber Laser development at CNIT Pisa
 - *Antonella B.*
- Bunch Phase Monitor (integrating DESY efforts)
 - *UNI LJ (prof. Vidmar)*



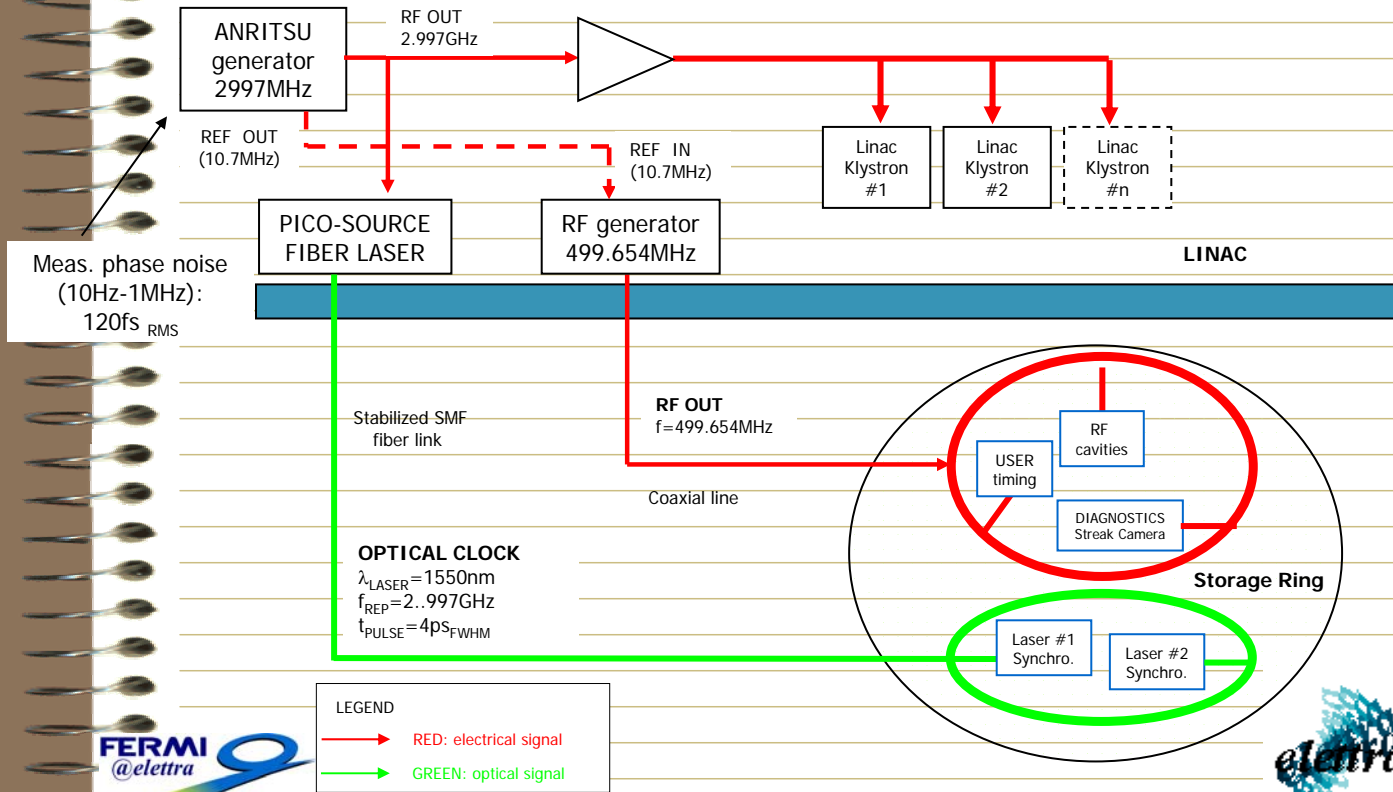
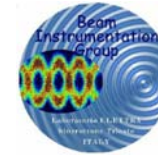


Current synchronization scheme for the ELETTRA (Linac + S. Ring)



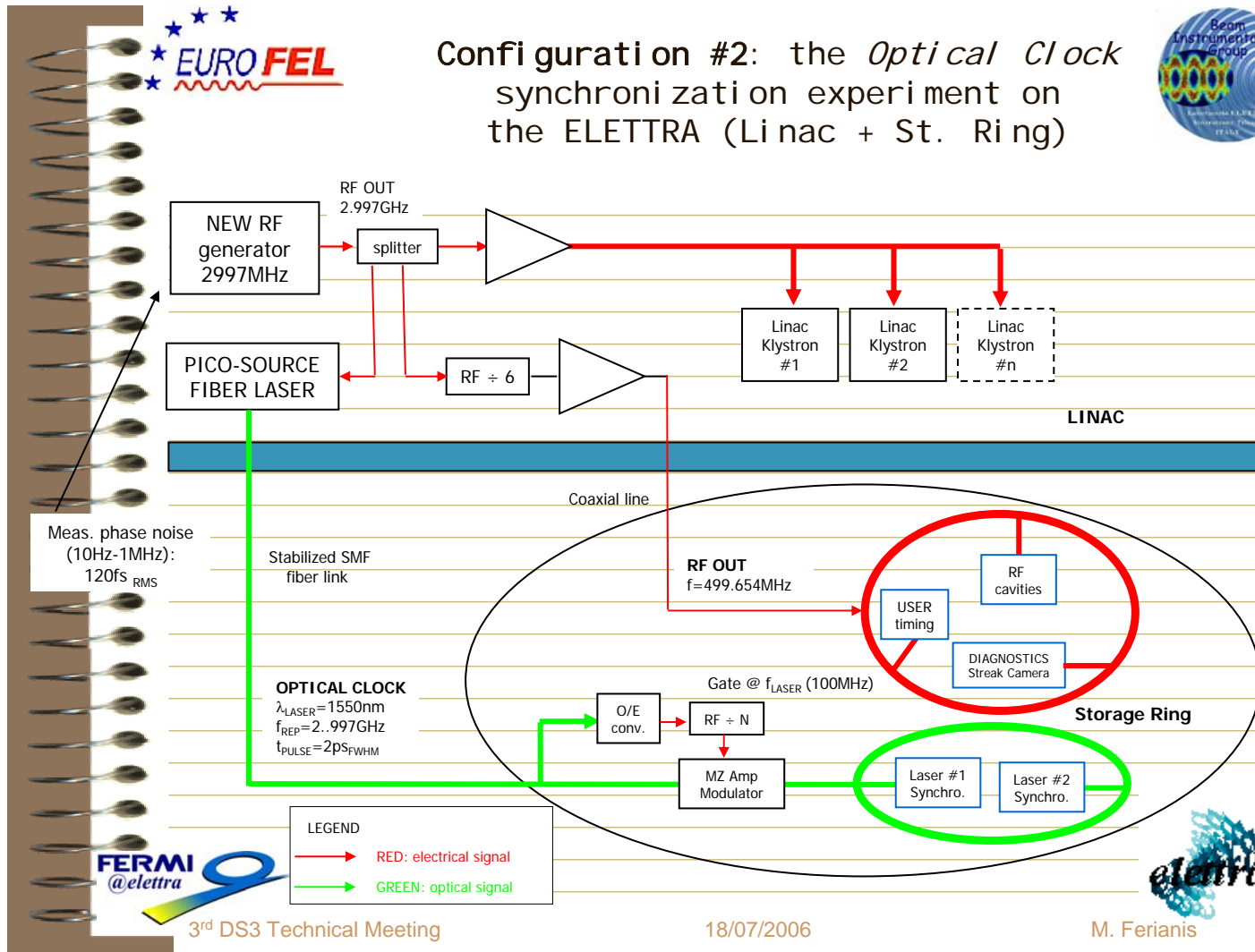
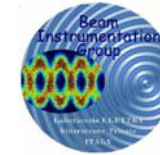


Configuration #1: the *Optical Clock* synchronization experiment on the ELETTRA (Linac + St. Ring)



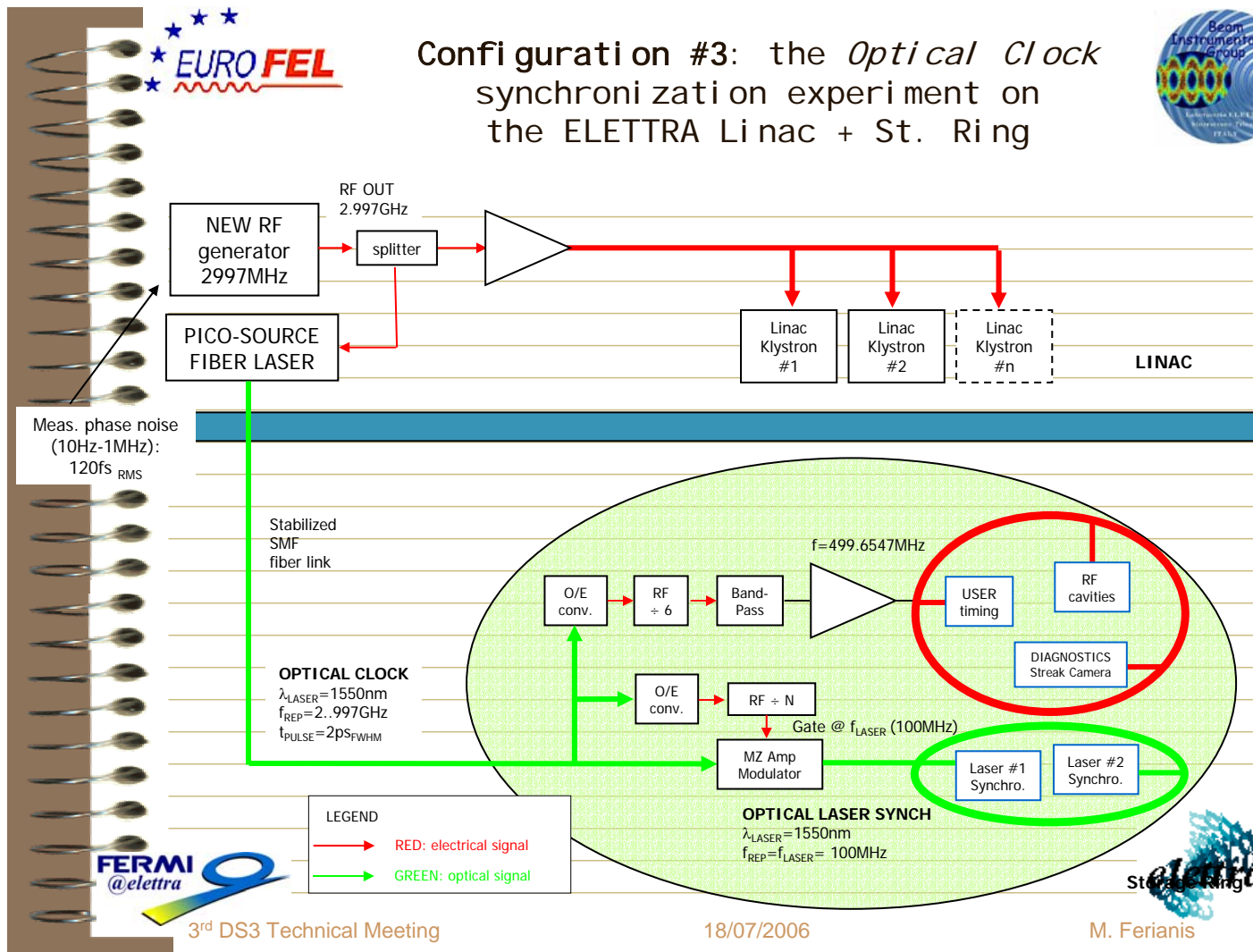
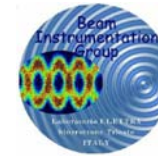


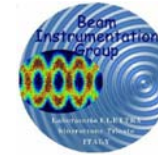
Configuration #2: the *Optical Clock* synchronization experiment on the ELETTRA (Linac + St. Ring)





Configuration #3: the *Optical Clock* synchronization experiment on the ELETTRA Linac + St. Ring





ENJOY THE MEETING!

