



WP8 - FEL SOURCE

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- **WP8.1: 10 Femtosecond Timing and Synchronization (DESY)**
- **WP8.2: Longitudinal Feedback and Associated Diagnostics (STFC)**
- **WP8.3: HHG Laser (MAXLab)**

IRUVX-PP Kick-off Meeting, DESY, Hamburg, April 10 2008

WP8 AGENDA (1)

9:15: GENERAL ISSUES (ELETTRA: Badano, Rohlev) (20 min)

- Contact people from each lab
- Correction of formal aspects of Annex 1 (incorrect deliverables)
- Organization of next workshop (who?, when?, where?, which central topic?)
- Overlap with other WP's (i.e. WP 3, 4, 6)
- Input for general assembly

9:35: WP8.1 FEMTOSECOND SYNCHRONIZATION & TIMING (DESY: Winter, Schlarb) (40 min)

- Update work plan
 - * Responsible people
 - * Deliverables and milestones
 - * Schedule
 - * Goals
- Organization of the tutorial
- Industrialization study work plan
- Organization of next workshop (combination with Synchronization Workshop planned in Frascati?)

WP8 AGENDA (2)

10:15: WP8.2 Longitudinal Feedback and Associated Diagnostics (STFC: Jamison) (20 min)

- Update work plan
 - * Responsible people
 - * Deliverables and milestones
 - * Schedule
 - * Goals
- ???

10:35 WP8.3 HHG Laser (MAXLab: Werin) (20 minutes)

- Update work plan
 - * Responsible people
 - * Deliverables and milestones
 - * Schedule
 - * Goals
- ???

CONTACT PEOPLE

	WP8.1	WP8.2	WP8.3
DESY	H. Schlarb, A. Winter	B. Schmidt	T. Laarmann
BESSY	T. Quast	T. Quast	T. Quast
ELETTRA	M. Danailov, M. Ferianis	D. Bulfone, T. Rohlev	M. Danailov
MAXLAB	S. Werin	S. Werin	S. Werin A. L'Huillier
STFC	S. Jamison	S. Jamison	S. Jamison
INFN/ENEA	A. Gallo	M. Ferrario	L. Gianessi
PSI	V. Schlott, S. Hunziker	V. Schlott	V. Schlott,
IPJ	R. Nietubyc	R. Nietubyc	R. Nietubyc
SOLEIL	M. E. Couprie	M. E. Couprie	M. E. Couprie

DELIVERABLES (1)

Del. no. ⁴⁸	Deliverable name	WP no.	Lead beneficiary	Estimated indicative person-months	Nature ⁴⁹	Dissemination level ⁵⁰	Delivery date ⁵¹ (proj. month)
D8.1	Review of current optical synchronization system at FLASH	8.1	DESY	3	R	CO	9
D8.2	Installation of optimized optical components at FLASH	8.1	DESY	6	D	CO	12
D8.3	Review of the reliability and performance of the optimized FLASH optical synchronization system	8.1	DESY	3	R	CO	24
D8.4	Report on investigation of critical components in a laser based synchronization system	8.1	DESY	3	R	CO	9
D8.5	Interim report on aging and reliability of optical components used for a laser based synchronization system	8.1	DESY	3	R	CO	18
D8.6	Final report on aging and reliability of components	8.1	DESY	3	R	PU	36
D8.7	Final report on small scale optical synchronization at the ERL	8.1	STFC	12	R	PU	36
D8.8	Prototype TiSa amplifier seeding unit ready	8.1	ELETTRA	9	P	CO	36
D8.9	Report on laser cross-correlation measurements at SLS slicing source	8.1	DESY	12	R	CO	22
D8.10	Report on pump-probe experiment at SLS IR beam line	8.1	DESY	18	R	CO	34
D8.11	Installation of THz spectrometer at FLASH	8.2	DESY	6	R	RE	24

DELIVERABLES (2)

D8.12	Implementation of high resolution EO detection prototype on ERLP, including fast readout electronics	8.2	STFC	9	P	RE	24
D8.13	Design of an Yb fibre laser system	8.2	DESY	8	P	RE	18
D8.14	Prototype of a line detector and signal pre-processing for high repetition rate measurements	8.2	DESY	10	R	CO	24
D8.15	Final Report on the two systems of high speed, low resolution	8.2	DESY	3	R	CO	36
D8.16	Report on beam stabilization using 11GHz X-band linearizer	8.2	DESY	15	R	CO	36
D8.17	Report on longitudinal feedback algorithm	8.2	ELETTRA	9	R	CO	26
D8.18	Collection of performance specifications of consortium partners	8.3	MAXLAB	3	R	CO	14
D8.19	Verification of HHG source performance for FEL seeding radiation	8.3	MAXLAB	9	R	CO	36

MILESTONES

M8.1	Tutorial on Synchronization	8.1	DESY	6
M8.2	Workshop on specification for industry	8.1	DESY	12
M8.3	Laser cross-correlation measurements	8.1	DESY	22
M8.4	Pump-probe experiment at SLS IR beam line	8.1	DESY	34
M8.5	Prototype high resolution profiling system	8.2	STFC	36
M8.6	Expert meeting on HHG	8.3	MAXLAB	10

FUTURE MEETINGS

- **FREQUENCY** (more often than the Annual Meeting)?
- **WHO?** (which tasks, which people)
- **DURATION?**
- **LOCATION?**
- **TECHNICAL WORKSHOPS?**

OVERLAP WITH OTHER WPs

- **WHAT DEVELOPMENTS IN OTHER WPs ARE CRITICAL TO YOU?**
- **AT WHAT PHASE?**
- **JOINT MEETINGS?**

INPUT FOR GENERAL ASSEMBLY

- **DISCUSSION SUMMARY**
- **NEXT STEPS**
- **WHO IS RESPONSIBLE FOR WHAT**
- **FUTURE MEETINGS**