

Forum on Advanced FEL Techniques

Wednesday 27 June 2018 - Thursday 28 June 2018

Stockholm, Alba Nova

Scientific Programme

Forum on advanced FEL techniques, 2018 (v2)

Wednesday 27/6-18 (Klein Lecture hall)

16:30 Welcome and introduction - Gianluca Geloni, Luca Giannessi, Sverker Werin

Session I: Coherence and photon pulse manipulation Chair: Gianluca Geloni

16:40 FEL techniques for Coherence and photon pulse manipulation - Brian McNeil

17:10 Combining Free Electron Laser pulses with coherent techniques - Giuseppe Sansone

17:40 Coherent x-ray imaging: challenges and opportunities ahead + SXL project discussion - Stefano Bonetti

18:10 Break, refreshments

18:25 Generation of coherent soft x-rays using the EEHG scheme at the FERMI FEL - Primosh Rebernik

18:40 Discussion I: Moderators Brian McNeil and Giuseppe Sansone

19:30 End

Thursday 28/6-18 (Room FD5)

09:00 Discussion I, recap

Session II: High pulse energy and polarization control Chair: Luca Giannessi

09:15 Techniques for controlling polarization and obtaining a high pulse energy - James MacArthur

09:45 Using high-energy FEL pulses to create and investigate matter in extreme conditions - Sam Vinko

10:15 Coffee Break

10:45 Advanced modes of operation and characterization of the radiation properties at FLASH - Mikhail Yurkov

11:00 Discussion II: Moderators James MacArthur and Sam Vinko

12:00 Lunch

Session III: Ultrashort pulses, multiple colors Chair: Sverker Werin

13:15 Overview of Short Pulse and Two-Color Operation of FELs - Sven Reiche

13:45 Scientific applications for ultrashort pulses and multicolour schemes - Michael Meyer

14:15 Sub-femtosecond pulse concepts for the European XFEL - Svitozar Serkez

14:30 Coffe Break

14:45 Transient grating experiments at FERMI - Filippo Bencivenga

15:00 Discussion III: Moderators Sven Reiche and Michael Meyer

16:00 Sum-up

16:15 End of workshop