

Welcome



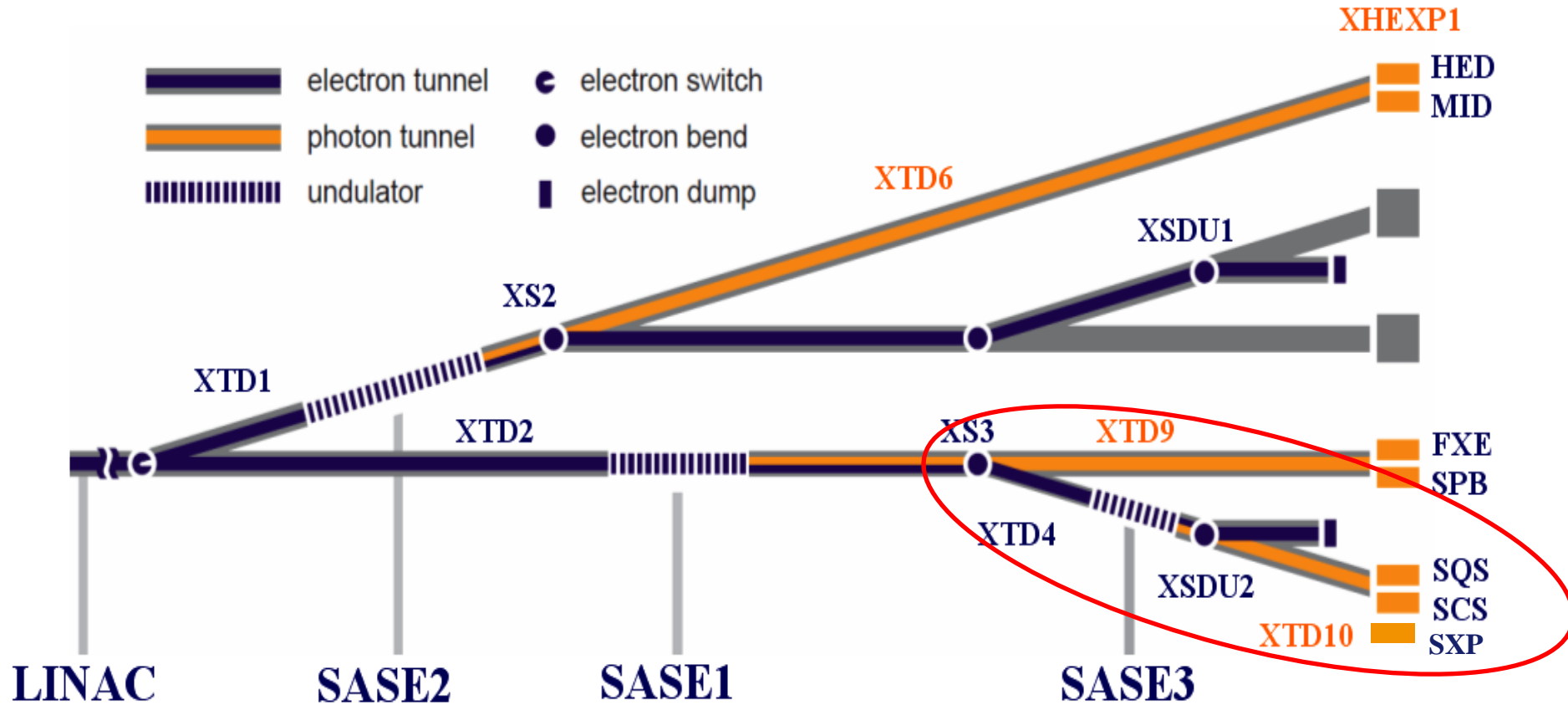
The SXP instrument at the European XFEL: status and perspectives

January 24, 2022, Schenefeld

Serguei Molodtsov
European XFEL, Scientific Director



Layout of EuXFEL

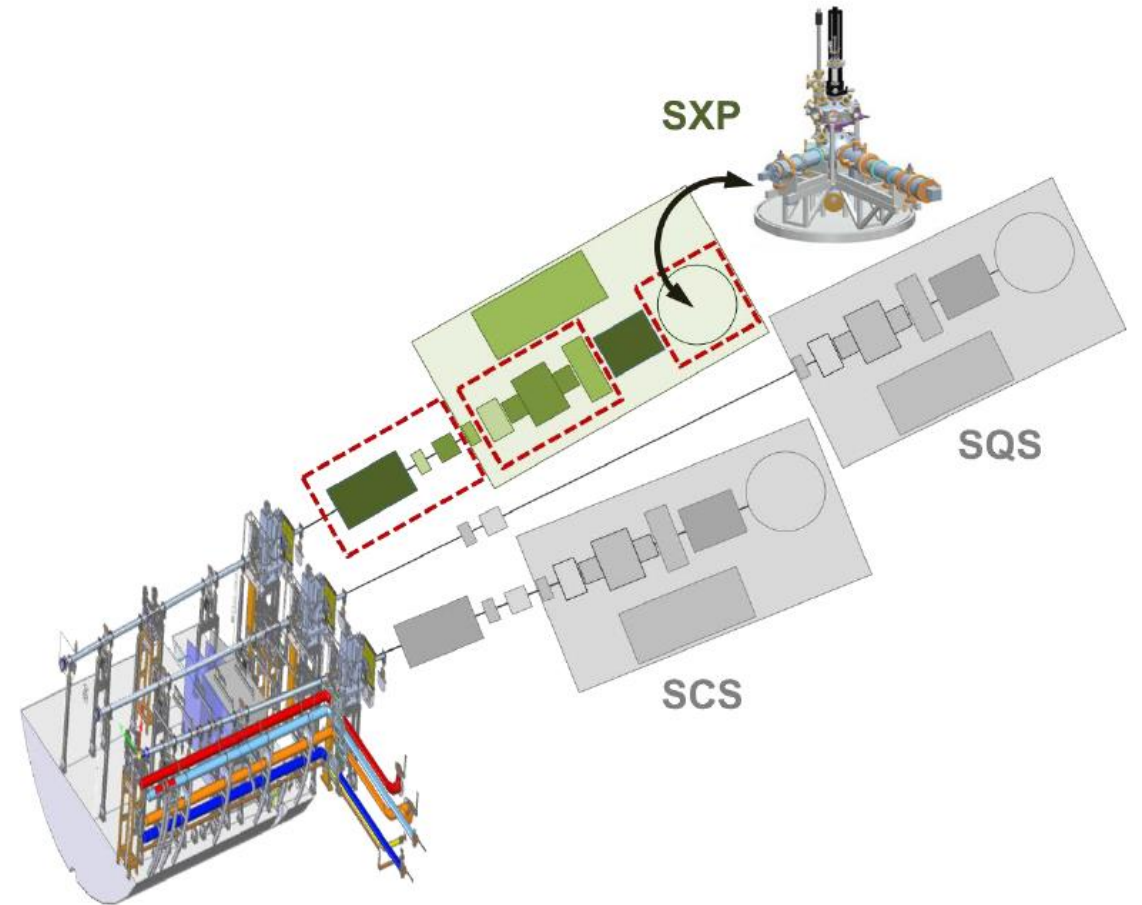


Orange color: X-ray optics & Beam Transport

SXP general interest

Soft X-ray Port core idea:

- Users bring their own experiment stations to be temporarily mounted at the end of the third branch (“open port”)
- Stations operated by users (in cooperation with the EuXFEL scientists); they should exploit techniques not contemplated in the baseline instrumentation of SCS or SQS



Date				
9:00	Welcome		Serguei Molodtsov	European XFEL
9:10	SXP in a nutshell		Manuel Izquierdo	European XFEL
Part I	SXP science cases and first experiments			
9:25	Complete time- and spin-resolved photoelectron spectroscopy at SXP		Kai Rossnagel	DESY and CAU Kiel
9:50	Chemical and bio-inorganic X-ray spectroscopy at SXP		Philipp Wernet/ Peter Feuer-Forson	Uppsala University/ HZ Berlin
10:15	Highly Charged Ions research at SXP		Jose Crespo	MPI Heidelberg
10:40	Coffee Break			
Part II	SXP day one Instrumentation			
10:50	SXP beam transport system		Maurizio Vannoni	European XFEL
11:10	SXP Laser program		Patrik Grychtol	European XFEL
11:30	Recent progress in ToF momentum microscopy towards spin- and time resolution		Gerd Schönhense	University Mainz
11:50	Lunch Break			
Part III	Further possible photoemission experiments			
12:20	Correlated electrons and novel temperature scales at the surfaces of 4f materials		Denis Vyalikh	Donostia International Physics Center
12:40	tr-PES view of correlated electron dynamics across phase transitions		Tommaso Pincelli	Fritz Haber Institute
13:00	Electron dynamics of light harvesting processes		Geoff Thorton	University College London
13:20	Ultrafast core level spectroscopy using an X-ray free electron laser source		Philip Hoffmann	Aarhus University
13:40	End			

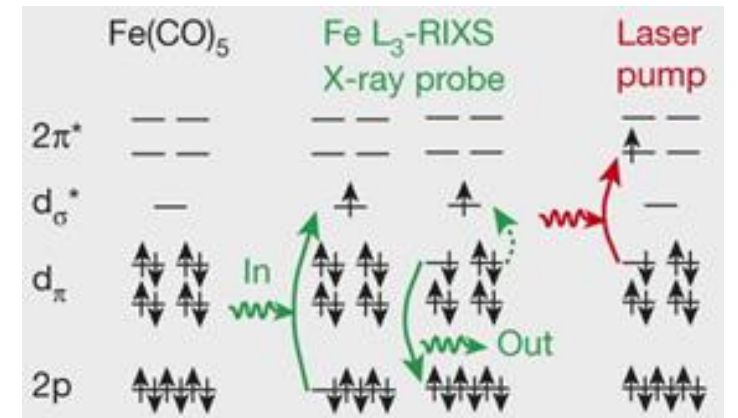
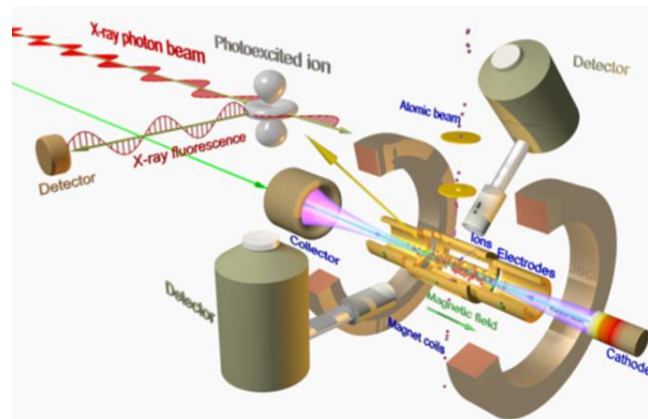
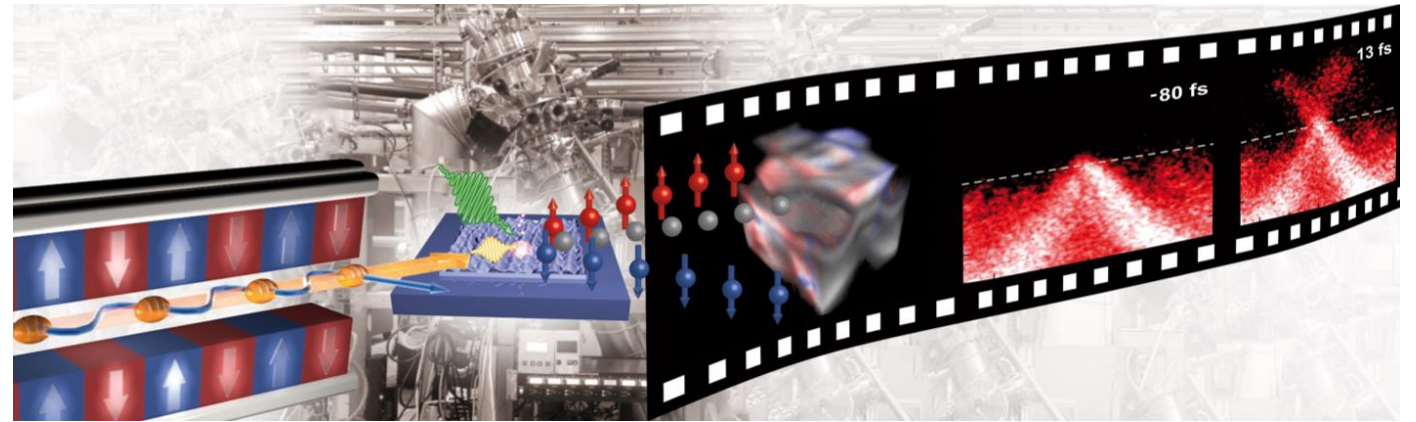
XFEL.EU TR-2022-001A

TECHNICAL DESIGN REPORT

Scientific Instrument Soft X-Ray Port (SXP). Part A: Science cases

January 4, 2022

*Manuel Izquierdo
on behalf of European XFEL and
the international SXP community
that contributed to the science
cases*



<https://xfel.tind.io/record/2647>

We are looking towards great science at the SXP instrument!

