



Nexus and HDF5 in FHI AC Department

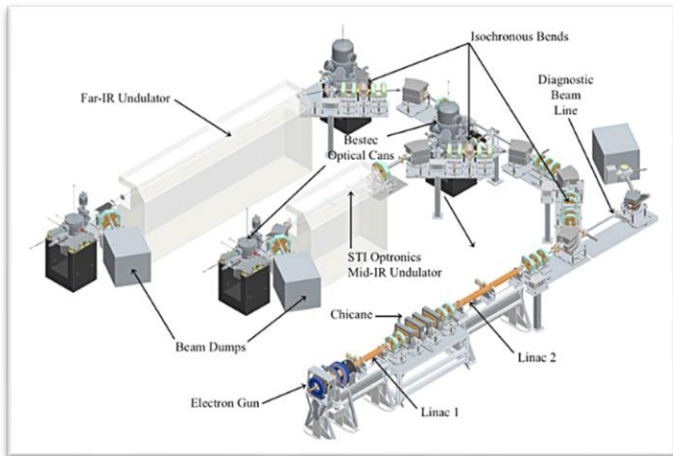
Patrick Oppermann

And

Abdulrhman Moshantaf

THE EXPERIMENTAL PHYSICS AND INDUSTRIAL CONTROL SYSTEM

Large Experiment FHI-FEL



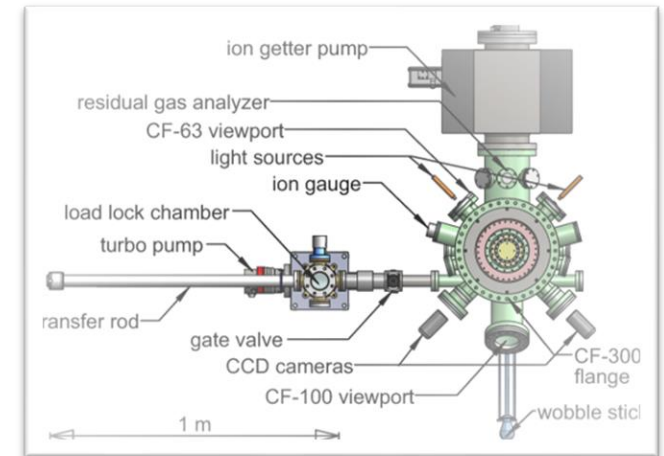
Full data acquisition and control of the experiment

Medium Experiment Image processing



Frame grabber, image processing, POI, tracking and further processing area detector

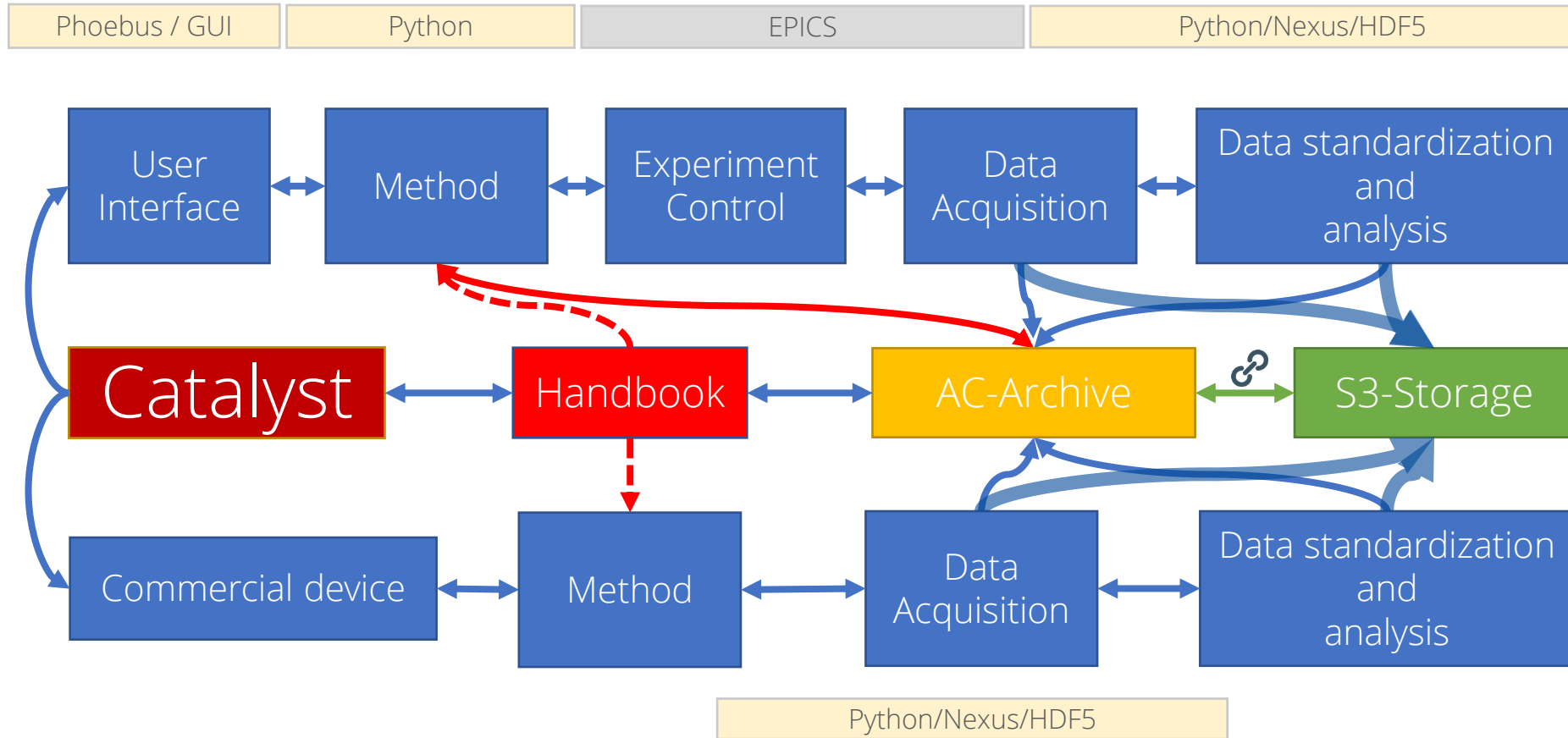
Small Experiment UHV Chamber



Temperature, pressure, flow, and valves







Laboratory setup





Data – CO oxidation – automated upload

Metadata

Action	   
Id	D51699
User	pallas
Project	DEFAULT
Access	project
Open Access	
Edit History	SHOW
Date Created	2021-11-19 13:19:58
Date Modified	2021-11-24 12:35:40

Data

Title	S28792 CO oxidation
Author	Gregor Koch
Comment	
Keywords	CO oxidation, light-off, perovskites
Document Type	RAW DATA
Methods	CO oxidation
Elements	Mn, O, La











Json Data

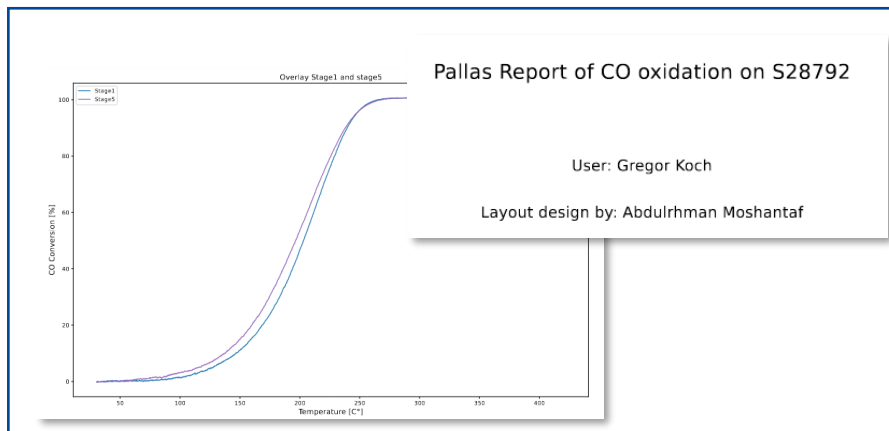
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Files

Id	File	Time	Comment	Size	Action
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764982	2021-11-18_13.44.47_S28792_Gregor Koch_CO oxidation.csv	2021-11-19 13:20:58		4.3 Mb	
765269	2021-11-24_13.04.37_S28792_Gregor Koch_CO oxidation_Report.pdf	2021-11-24 13:04:58		170.6 Kb	

Linked Entries

Id	Project		Action
S28792	HISTORICAL	La0.94MnO3	Bal,Koch 
E3	DEFAULT	Pallas	Gregor Koch 
D51577	DEFAULT	211027_CO_oxi_1_20_50_ramp_rate_ramp_GK Method	
C156	DEFAULT	Siliciumcarbide	Siliziumcarbide 
C148	DEFAULT	Quarz wool	Quarzwolle 
G8	DEFAULT	Hydrogen 5.0	Wasserstoff 5.0 
G9	DEFAULT	Oxygen 5.0	Sauerstoff 5.0 
G10	DEFAULT	Helium 5.0	Helium 5.0 
G11	DEFAULT	Carbon Monoxide (Pallas E3)	Kohlenmonoxid (Pallas E3) 
S34394	HISTORICAL	Gasgemisch / gas mixture 1% CO2 / 1% CO / 10% ..	Westfalen AG 



Json Data

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