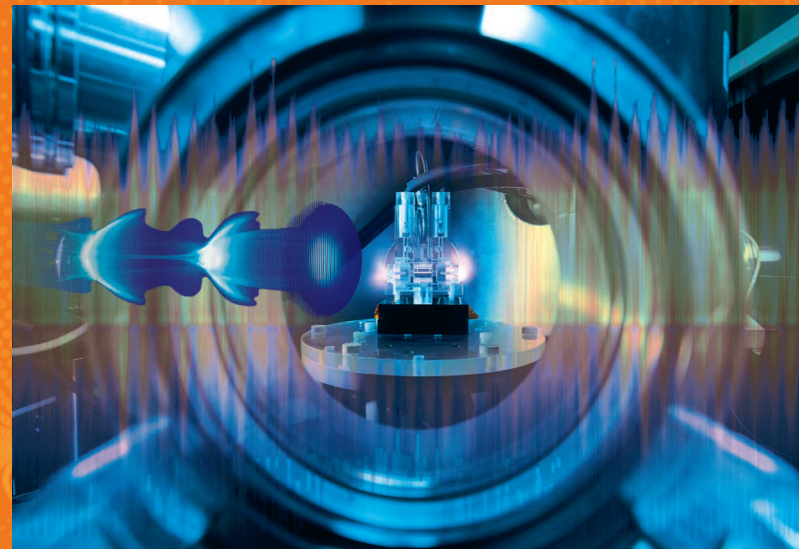
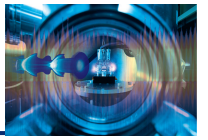


ACCLAIM - KICK-OFF MEETING

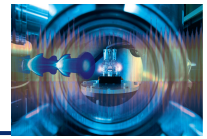
Frank Gaede, DESY
Matt Zepf, HIJ





- Innovationpool Project ACCLAIM - Accelerating Science with Artificial Intelligence and Machine Learning
- Development and Application of AI and ML methods to some of the most challenging problems in the area of giant data sets in the fields of photon science, particle physics and accelerator science.
- Build on and extend the work started in the AMALEA project by including new partners and adding new topics: laser driven plasma acceleration, anomaly detection and application of quantum computing.
- 3 year project 1.1.21-31.12.23
- Partners:
 - DESY, GSI, HIJ, HZB, HZDR, KIT

Workpackages and Budget



- AI-Methods for real time optimisation of plasma accelerators and their laser systems (DESY, HIJ, HZDR, KIT)
- Application of AI to tuning and control of accelerators (DESY, GSI, HZB, KIT)
- Maschine assisted anomaly detection and fault prediction (DESY, GSI, HZB, KIT)
- ML-Methods for efficient simulation (DESY/HZDR)

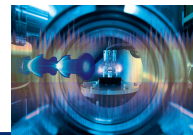
Finanzierungsplan für 2021 bzw. pro Jahr (bei jährlich gleichbleibenden Kosten)							
	DESY	GSI	HIJ	HZB	HZDR	KIT	Summe
	kEuro	kEuro	kEuro	kEuro	kEuro	kEuro	kEuro
Gesamtkosten							
Personal	345	65	35	80	98	125	748
Sachmittel	0	0	0	0	0	0	0
Investitionen	0	0	0	0	0	0	0
Beantragt im Innovationspool	225	15	28	80	98	105	551
Zusätzliche Mittel der Projektpartner (optional)¹	120	50	7	0	0	20	197

Goal for Today

- getting to know each other
- plans and goals for ACCLAIM
- already existing work and collaborations
 - -> see agenda
- have short discussion at the end about organising the project:
 - regular Meetings
 - F2F Meetings
 - working group meetings
 - ...



3:00 PM	→ 3:10 PM	Introduction Speakers: Frank Gaede (FLC (FLC Fachgruppe SOFT)), Matt Zepf
3:10 PM	→ 3:20 PM	Introduction and Plans - GSI Speaker: Sabrina Appel (GSI)
3:20 PM	→ 3:30 PM	Introduction and Plans - HZB Speaker: Luis Vera Ramirez (Helmholtz-Zentrum Berlin)
3:30 PM	→ 3:40 PM	Introduction and Plans - HZDR Speaker: Nico Hoffmann (HZDR)
3:40 PM	→ 3:50 PM	Introduction and Plans - KIT Speaker: Andrea Santamaria (KIT)
3:50 PM	→ 4:00 PM	Introduction and Plans - HIJ Speaker: Matt Zepf (HIJ)
4:00 PM	→ 4:10 PM	Introduction and Plans - DESY-M Speaker: Annika Eichler (DESY)
4:10 PM	→ 4:20 PM	Introduction and Plans - DESY-FH Speaker: Dirk Kruecker (CMS (CMS Fachgruppe Searches))
4:20 PM	→ 4:40 PM	Discussion General Discussion about Project - regular Meetings - F2F Meetings - working groups



- regular Meetings - proposal:
 - have regular meetings every three or four weeks (similar to AMALEA)
 - round table w/ very short (2 slide) presentations
 - have one scientific presentation
 - ...
- working group meetings:
 - there should probably be additional working group meetings
 - identify common problems and exploit synergies
 - ...
- F2F Meetings - proposal:
 - have one Annual “**in person**” Meeting
 - start with first annual meeting in fall 2021 (if possible)
 - ...