

AMALEA - follow up proposal

F.Gaede, DESY

June 3, 2020

Helmholtz Innovation Pool 2nd round

- Management Board Matter and the BMBF have decided that there will be a second round of calls
 - funding for new projects starting on 1.1.2021
 - total budget for all of matter of approx. 4.7 Mio EUR / year.
 - MT could have a total combined budget of 1.6 Mio EUR/ year.
 - currently two projects running: expect ~**0.8 MEUR/a** - not exceeding **1 MEUR/a**
 - encourage projects which deal with one of two special areas, namely **sustainability**, and **artificial intelligence**
- **Running projects can ask for an extension, if a significant potential for progress beyond the original proposal can be demonstrated.**
 - need to submit a **short (10 lines) executive summary** of your proposal, together with a **list of collaborators**, and a **very first budget**, to mt-management@helmholtz-mt.de **by June 12, 2020.**

Current Status

- all current partners: **DESY, HZDR, HZB** and **KIT** expressed interest in an extension project
 - continuation of current topics and/or something new ?
- potential new partners: **GSI** and **DESY-M**
 - with the topic of **predictive maintenance and alarm prognostics with AI for accelerators.**
- should increase the budget to get a similar funding as in previous round
 - share of budget is already essentially fixed by Helmholtz

Goals for today

- get **ideas from all involved partners** on what they would like to **work on** in the follow-up project
 - have one summary slide each
- discuss how this **all fits together**
 - start thinking about the 10 lines of **executive summary** that are due **by June 12**

· Introduction	Frank GAEDE
· Plans and Ideas for HZDR	Nico HOFFMANN
· Plans and ideas at HZB	Mr. Luis VERA RAMIREZ
· Plans and ideas at KIT	Andrea SANTAMARIA
· Plans and Ideas for DESY - CFEL	Dr. Luca GELISIO
· Plans and ideas for DESY FH	Frank GAEDE
· Plans and ideas for DESY M	Ilya AGAPOV et al.
- Plans and Ideas for GSI	Sabrina APPEL
- Discussion - All	

- do we need a **new name** ?
 - or simply use **AMALEA²**
- should continue the discussion in the **next regular AMALEA** meeting, **Mon June 8**

some other proposals

- there is a “**laser plasma interest group**” that is currently also preparing a proposal for the 2nd round
 - partners there: DESY, HZDR, HI-Jena, KIT and GSI
 - potentially also focusing on AI methods
 - have large overlap in partner institutes (and partly people)
 - could stress potential **synergies** and **networking** in the proposal !?
- another proposal on “**Data Selection using “Triggers” in Photon Science**” is prepared by DESY and others: DESY-DTS (H. Graafsma), DESY-DMA (A. Barty), DESY-MML (H. Chapman), DESY-MT (T. Behnke), KIT-DTS (M. Weber)
 - applying FPGAs and Machine Learning to this problem
 - question: overlap with our DESY-CFEL/FS activities ?
 - how should we position ourselves wrt. to this ?