MATTER AND TECHNOLOGIES

A program in Matter
Executive Board Meeting

Ties Behnke (DESY)
Spokesperson of the program
AGENDA

- MT program development
- Preparations for POFIV
  - The proposal: Templates etc.: Friederike
  - Milestones: trying to define a common approach: Andreas
    - technicalities
- MT communication
- MT reporting
- Central MT tools and facilities
- AOB
### CW SCRF Science and Technology
- Advanced beam controls, beam diagnostics, beam dynamics
- Novel Accelerators and their Applications

### Detection and Measurement
- System Technologies
- Science Systems

### The Matter Information Fabric
- The Digital Scientific Method
- The Digital Experiment and Machine

#### Our future structure
MATTER AND TECHNOLOGIES

Our future structure

ARD

Andreas Jankowiak
Jens Osterhof

Concepts and Prototypes for the Advancement of Conventional Acc.

Advanced beam controls, beam diagnostics, beam dynamics

Novel Accelerators and their Applications

DTS

Marc Weber
Fine Fiedler

System Technologies

Science Systems

MT

The Matter Information Fabric

The Digital Scientific Method

The Digital Experiment and Machine

POFIII

POFIV
CW SCRF Science and Technology
Concepts and Prototypes for the Advancement of
Advanced beam controls, beam diagnostics, beam dynamics
Novel Accelerators and their Applications
Detection and Measurement System Technologies
Science Systems
The Digital Experiment and Machine

The Matter Information Fabric
Michael Bussmann, Volker Guelzow

The Digital Scientific Method
Andreas Jankowiak
Jens Osterhof

POFIII
POFIV

Ties Behnke
Peter Michel

Ties Behnke
Anke Susanne Mueller

Friederike Januschek
Scientific Manager

Andreas Jankowiak
Jens Osterhof

Marc Weber
Fine Fiedler

Marc Weber
Silvia Machiotto

Andreas Jankowiak
Jens Osterhof
PROGRAM PROPOSAL IN A NUTSHELL

- The program proposals are due summer 2019
- **Matter** report maximum 300 pages consisting of
  - Overview (Research field)
  - Program Proposals
  - LK II facilities
- Outline Program Proposal:
  - Overview (Program)
  - Research Program (Overall, Topics)
  - Program Organization
  - Resources
  - List of Publications Related to the Program Proposal
  - Curricula Vitae of Program Participants
PROGRAM PROPOSAL CONTENT
FINAL PAGE NUMBERS

- **Matter** report: maximum 300 pages, i.e. extremely limited, 52 for overview, 73 for LK II (including glossary) and 168 for programs (48 MT).
- Page numbers volume(s) II:

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<tr>
<th>Section</th>
<th>Pages</th>
<th>Sum</th>
<th>Volume Sum</th>
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<td>Program overview &amp; research program (3x)</td>
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<tr>
<td><strong>Sum of MU, MML and MT</strong></td>
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<td><strong>168</strong></td>
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*MU and MML: 11 pages per Topic; MT: 8 pages per Topic; in total: 90 pages.

Only 8 pages per MT topic!
STRUCTURE OF THE PROPOSAL FOR TOPICS

• Strategic goal of the topic
• Possibly overarching goals and milestones

• Per subtopic:
  • Competences
  • Objectives and approach (work program)
  • Expected results (milestones, maximum 5 per subtopic)

• Synergies and collaboration
• Infrastructures
• Opportunities and risks

Proposal, to be discussed
MILESTONE DISCUSSION

- Max 5 milestones per subtopic
- Do we need “topic” milestones
- Milestone needs a completion date
- Milestone needs list of centers involved
- Should be concrete, but general…
- Milestones should be “review safe”
  - No cascading milestones
  - No unrealistic milestones
  - As little as possible external dependencies

Remark: milestones table is part of the overall page allocation
PROGRAM PROPOSAL TIMELINE

- **MT** internal: First version ready 1.5.19
- **Matter** internal: First version ready 24.6.19
- Summer: approval by centers, MB matter and FBP Matter (6.9.19)
- 13.9.-15.10.19 layout, 10.10.19 deadline for last corrections
- 21.10.19 Digital version of proposal and tables to Helmholtz
- 5.11.19 Final version sent to printing center
- 18.11.19 Printed copies at Helmholtz (8+1 weeks before evaluation)
STRATEGIC EVALUATION

- Chair for Matter: Ursula Bassler
- The four dimensions of the evaluation:
  - Goals
  - Work plan
  - Competences and Resources
  - Impact & Risks
- The smallest evaluated unit will be the topics.

Participants in the actual review:
- The panel (10-11 members)
- R.D.Heuer (Matter Senate Member)
- A representative of the senate commission
- The president of the Helmholtz association
- Funding agencies
- Scientific directors of the centers
- Program speakers, topic speakers, LK II speaker

Preliminary agenda exists, 2 hours for MT (including 20 minutes dedicated to each topic) plus 0.5 hours for remaining questions
Proposal:

- use confluence as a common entry point where the drafts are stored
- Yet to be decided: is this a frontend for another document management and storage system, or do we use confluence as the storage system of choice?
CONFLUENCE FOR MT:

https://confluence.desy.de/display/DTS/Matter+and+Technologies
CONFLUENCE FOR MT:

https://confluence.desy.de/display/DTS/Matter+and+Technologies

Online, please use it.

Currently only few groups are active, should grow

This could grow into one of our main communication channel

Please contact me if you need privileged access
CONFLUENCE FOR THE PROPOSAL

The Proposal Page


The research area matter has to write a proposal which will be the input for the strategic evaluation of matter in January 2020. On this page you will find the latest version of the proposal part from MT.

Schedule for the evaluation

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<td>only internal to matter</td>
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<td>Ultimate deadline for comments</td>
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<td>Evaluation of Matter</td>
<td>27.1.- 30.1.2020</td>
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Question: how accessible should the proposal be?
MT logo and a “corporate design”: please use it
(resources are available on the confluence page, see below)
Templates etc will be updated to reflect the new Helmholtz Corporate design
CENTRAL TOOLS

Central indico for MT:
- [https://indico.desy.de/categoryDisplay.py?categId=384](https://indico.desy.de/categoryDisplay.py?categId=384)

Please make sure that ALL MT related events are either in the MT indico, or are linked to it.

Confluence for information management within MT:
- [https://confluence.desy.de/display/DTS/Matter+and+Technologies](https://confluence.desy.de/display/DTS/Matter+and+Technologies)

Central mailing lists:
- [https://lists.desy.de/sympa](https://lists.desy.de/sympa)

Please make sure you communicate!

Whole set of mailing lists in MT has been setup
Please use it
Contact Friederike if you have questions
Preliminary,
There are still numbers missing:
FZJ

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ANNUAL MEETING 2019

Number of registrants: 220

Broad participation from all centers

Location of the 2020 annual meeting: please make proposals