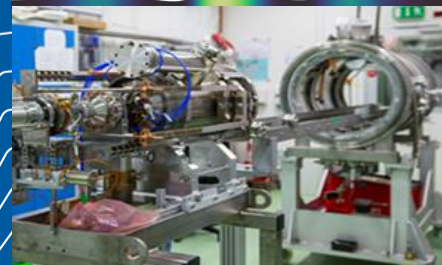
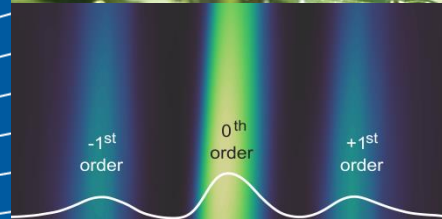




MATTER AND TECHNOLOGIES

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

MATTER AND TECHNOLOGIES

Our future
structure

M T ARD

CW SCRF Science
and Technology

Concepts and
Prototypes for the
Advancement of
Conventional Acc.

Advanced beam
controls, beam
diagnostics, beam
dynamics

Novel Accelerators
and their
Applications

M T DTS

Detection and
Measurement

System
Technologies

Science
Systems

M T DMA

The Matter
Information Fabric

The Digital
Scientific Method

The Digital
Experiment and
Machine

MATTER AND TECHNOLOGIES

M T ARD

M T DTS

M T DMA

Ties Behnke
Peter Michel

Andreas
Jankowiak
Jens Osterhof

Marc Weber
Fine Fiedler

The Matter
Information Fabric

POFIII

Our future
structure

Concepts and
Prototypes for the
Advancement of
Conventional Acc.

System
Technologies

The Digital
Scientific Method

POFIV

Friederike
Januschek
Scientific
Manager

Advanced beam
controls, beam
diagnostics, beam
dynamics

Science
Systems

The Digital
Experiment and
Machine

Novel Accelerators
and their
Applications

MATTER AND TECHNOLOGIES

M T ARD

M T DTS

M T DMA

Ties Behnke
Peter Michel

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Jens Osterhof

Marc Weber
Fine Fiedler

The Matter
Information Fabric

POFIII

Ties Behnke
Anke
Susanne
Mueller

Concepts and
F

Andreas
Jankowiak
Jens Osterhof

Marc Weber
Silvia
Machiotto

Michael
Bussmann,
Volker
Guelzow

POFIV

Friederike
Januschek
Scientific
Manager

Advanced beam
controls, beam
diagnostics, beam
dynamics

Novel Accelerators
and their
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Science
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Experiment and
Machine

PROGRAM PROPOSAL IN A NUTSHELL

Strategic guidelines of the federal and state ministries for the strategic positioning of the research field.

Principal investigators of the research field draft comprehensive proposals for new Helmholtz research programs.



- 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:

	Pages	Sum	Volume Sum
Cover page and table of contents (3x)	4	12	
Program overview & research program (3x)	8	24	
Description of Topic (9x; each topic 8-11p. *)	10	90	
Program organization (3x)	4	12	
Program Resources (3x)	4	12	
Program Publications (3x)	2	6	
Program CVs (3x)	4	12	
Program total			48 – 57
Sum of MU, MML and MT			168

*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)





- The strategic evaluation for matter: 27.-29. January 2019
- 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

DEVELOPING THE PROPOSAL: TECHNICALITIES

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>

The screenshot shows a Confluence page titled "Matter and Technologies". The page is part of a space named "Matter and Technologies". The left sidebar shows a "PAGE TREE" with links to "Accelerator Research and Development", "Detector Technologies and Systems, DTS", "Data Management and Analysis", "File lists", "POF IV", "Reporting", "Shared links", "Tools for Collaborators", "POF III", and "Minutes". The main content area features the "MATTER AND TECHNOLOGIES" logo, a description of the program, and two sub-topics: "Accelerator Research and Development" (ARD) and "Detector Technologies and Systems" (DTS). The "Recently updated" section shows the page was updated by Ties Behnke less than a minute ago, and a link to "Templates (talks, posters, ...)" was updated by Friederike on Jun 08, 2018.

Confluence Spaces People Create ...

MATTER AND TECHNOLOGIES ★

PAGE TREE

- Accelerator Research and Development
- › Detector Technologies and Systems, DTS
- Data Management and Analysis
- File lists
- › POF IV
- › Reporting
- › Shared links
- › Tools for Collaborators
- POF III
- Minutes

MATTER AND TECHNOLOGIES

Ties Behnke posted on 15. Dec. 2015 13:50h - last edited by Ties Behnke on 13. Jun. 2018 09:53h

MATTER AND TECHNOLOGIES

Matter and Technologies is a program within the research area Matter of the Helmholtz Association. Matter and Technologies (MT) develops technologies for accelerators and detectors which are needed by the experiments and projects of the Helmholtz association and beyond. The program collaborates closely with the other programs in the research area matter (Matter and the Universe, MU, and From Matter to Materials and Life, MML).

M T ARD

Topic "Accelerator Research and Development", ARD

2018 Annual Meeting: <https://indico.desy.de/indico/event/19923>

M T DTS

Topic "Detector Technologies and Systems", DTS

Recently updated

- Matter and Technologies**
less than a minute ago • updated by Ties Behnke • view change
- Templates (talks, posters, ...)**
Jun 08, 2018 14:39 • updated by Friederike

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

≡

Confluence

Spaces ▾

People

Create

⋮

Search

?

PAGE TREE

- Accelerator Research and Devel...
- Detector Technologies and Syst...
- Data Management and Analysis
- Innovationspool
- File lists
- ▾ POF IV
 - **The Proposal Page**
 - Strategic Evaluation
 - Strategy Documents
 - Report for Center Reviews
 - Computing in Matter
 - Strategy Meetings
- Reporting
- Shared links
- Tools for Collaborators
- POF III
- Minutes

Pages / Matter and Technologies / POF IV

Edit

Save for later

Watching

Share

⋮

The Proposal Page

Ties Behnke posted on 06. Mar. 2019 09:24h - last edited by Ties Behnke on 06. Mar. 2019 12:43h

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

Date	Milestone	comment
First complete draft of the proposal	1.5.2019	only internal to matter
Proposal text submitte to matter management	24.6.2019	for discussion in the Managementboard on 8.7.2019
Submission of final proposal to external lectorate	1.8.2019	
Research area platform meeting to discuss the proposal	6.9.2019	first discussion with BMBF
Ultimate deadline for comments	10.10.2019	
Final submission of proposal to Helmholtz	21.10.2019	
Evaluation of Matter	27.1.-30.1.2020	

Link to the latest proposal version:
POFIV Proposal

CONFLUENCE FOR THE PROPOSAL

≡

Confluence

Spaces ▾

People

Create

...

Search

?

PAGE TREE

- Accelerator Research and Devel...
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Pages / Matter and Technologies / POF IV

Edit

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Link to the latest proposal version:
POFIV Proposal

Question: how accessible should the proposal be?

MT COMMUNICATIONS

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



MATTER AND TECHNOLOGIES
ACCELERATOR RESEARCH AND DEVELOPMENT



MATTER AND TECHNOLOGIES
DETECTOR TECHNOLOGIES AND SYSTEMS



MATTER AND TECHNOLOGIES
DATA MANAGEMENT AND ANALYSIS



**MATTER AND
TECHNOLOGIES**

CENTRAL TOOLS

Central indico for MT:

- <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>

Central mailing lists:

<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

MT REPORTING 2018

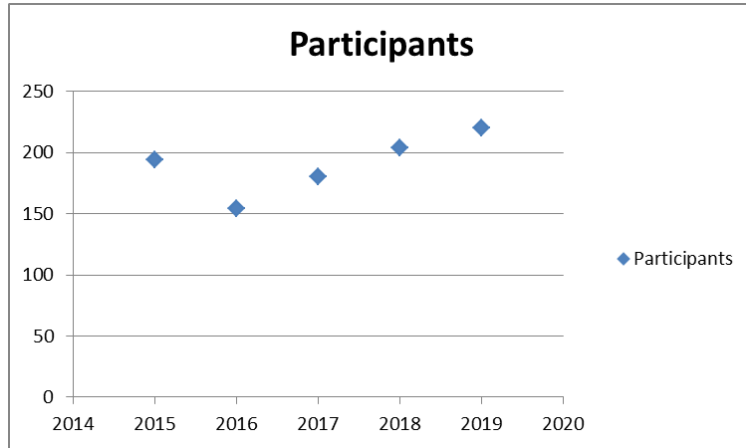
	Einheit	2014	2015	2016	2017	2018	Veränderung 2018 zu 2017 absolut	Veränderung 2018 zu 2017 prozentual
ISI oder SCOPUS zitierte Publikationen	Anzahl	180	178	224	177	173	-4	-2%
andere referierte Publikationen	Anzahl	86	61	63	123	95	-28	-23%
Drittmittelträge	TEUR	7,882	7,808	5,697	7,743	7,722	-21	0%
abgeschlossene Dissertationen	Anzahl	17	21	20	32	28	-4	-13%
Nachwuchsgruppen	Anzahl	2	1	1	1		-1	-100%
ausgewählte koordinierte nationale und intern. Förderprogramme	Anzahl	19	27	20	23	17	-6	-26%
Kooperationen mit der Wissenschaft	Anzahl	194	174	167	153	121	-32	-21%
Kooperationen mit der Wirtschaft	Anzahl	19	10	11	16	27	11	69%
prioritätsbegründende Patentanmeldungen	Anzahl	5	3	5	4	3	-1	-25%
Kapazität der grundfinanzierten Wissenschaftler	PJ	121	124	125	133	123	-10	-8%
Kapazität der drittmittel-finanzierten Wissenschaftler	PJ	18	14	19	36	34	-3	-7%
Summe Wissenschaftler	PJ	139	138	144	169	157	-13	-7%

Preliminary,
There are still
numbers missing:
FZJ

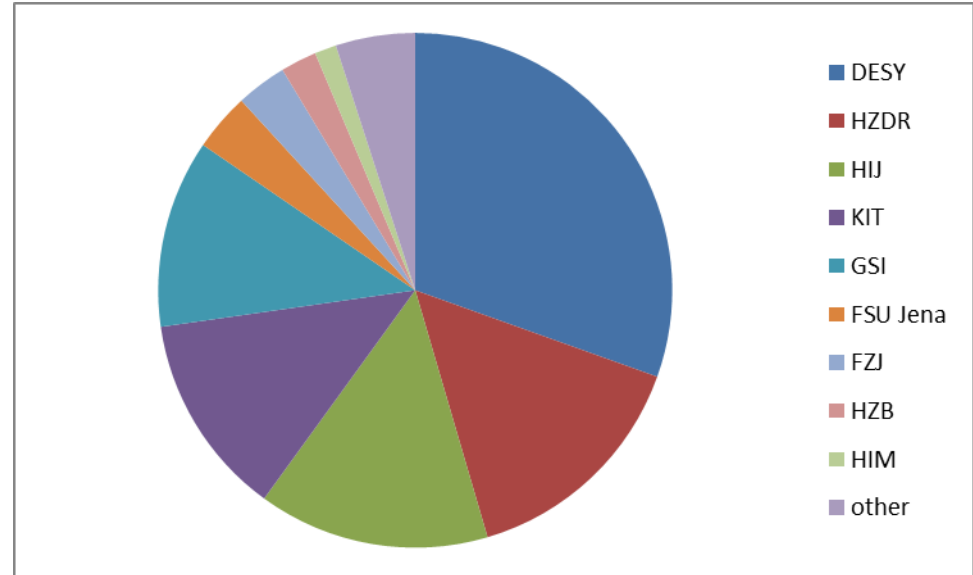
ANNUAL MEETING 2019

Number of registrants: 220

Broad participation from
all centers



participants



Location of the 2020 annual meeting: please make proposals