



'The strong interaction at the frontier of knowledge: fundamental research and applications'

TA: FTD-Hadron

Hartmut Schmieden

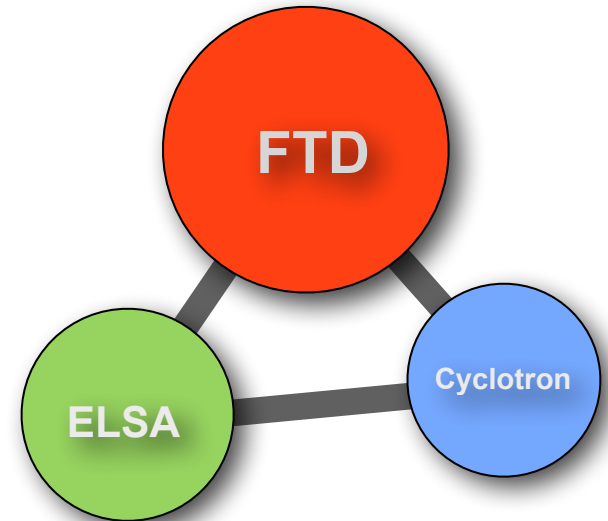
University of Bonn

Physikalisches Institut

STRONG-2020 Kick-off meeting

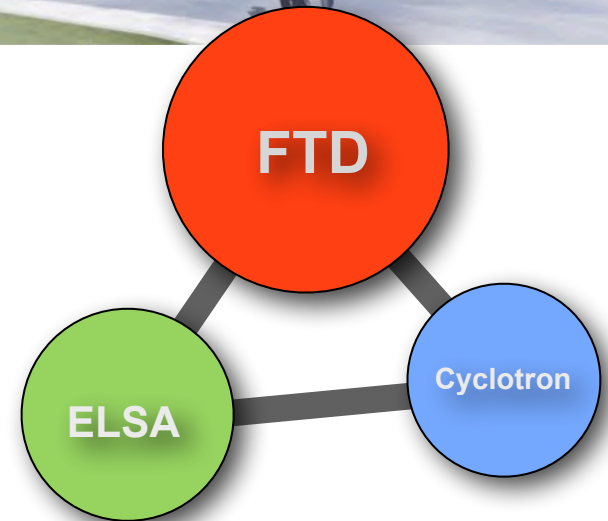
October 23-25, 2019

- provide **transnational access** to research infrastructures
University of Bonn / Department of Physics
- **FTD – Forschungs- und Technologie-Zentrum Detektorphysik**
Research and Technology Centre Detector Physics
 - common infrastructure high-energy, hadron, photonics
 - new 33 M€ investment
- **ELSA – Electron Stretcher Accelerator**
 - 3.2 GeV polarised cw e-beam
 - BGO-OD & CB/TAPS hadron experiments
 - test beam “single e ... 10nA”
- **Bonn Isochronous Cyclotron**
 - p ... ^{12}C beams, 14 MeV/nucleon



○ **Status FTD Building**

- 2010 m² lab space
- shielded underground lab
- 360 m² clean rooms ISO 5/6
- micro-structuring & connection technology
- heavy load assembly area
- 880 m² office space
- original completion date: end of 2018
- now postponed to Q1 or 2 / 2020
- among others due to water damage



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 824093.

- initial tasks

- set up bodies

- access coordinator → Dr. Thomas Jude
 - access office → J. Weigelt (PI business office)
 - user selection panel (USP) → Prof. R. Beck, Prof. K. Desch, Prof. J. Dingfelder, Dr. D. Elsner, Dr. S. Goertz, Dr. F. Hügging, Prof. B. Ketzer, Prof. H. Schmieden, Prof. U. Thoma

- international call for new proposals

- in photo-meson/baryon & detector physics

- webpage

- necessary information for outside users
 - proposal procedure & form sheets

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FTD-Hadron

A transnational access infrastructure in the frame of Strong-2020

FTD-Hadron
A transnational access infrastructure in the frame of Strong-2020.

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Forms for project proposals and specific access allowance
Downloadable cover sheets for project proposals and specific allowance required per visit.
Please send completed forms to Dr. Thomas Jude - jude@physik.uni-bonn.de

[Read More...](#)

How to prepare proposals and specific access allowance forms

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Important links

- Events
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 Elsa
  Atlas

 Bethe Center

 SFB/TR 16

 TR33 Dark Universe

 Physikshow

 Schulphysik

 Werkstattverbund
Physik

 Wolfgang-Paul-Lecture

Upcoming Conferences

- Bethe-Forum Announcements

News

- 3rd quarter 2019 - First collisions in the full Belle II detector
- 2nd quarter 2019 - Wolfgang Paul lecture
- 2nd of May 2019, 10.15 am, Wolfgang Paul lecture

[More...](#)

Webcam Building Site Research and Technology Centre for Detector Physics

ftdcam.physik.uni-bonn.de

Contact

Institute Director
Prof. Dr. Klaus Desch
desch@physik.uni-bonn.de
Raum 1.035
Physikalisches Institut
Nussallee 12
53115 Bonn
Tel.: +49-228-73 3236
Fax: +49-228-73 7869

Office
Jacqueline Weigelt
sek@physik.uni-bonn.de
Room 1.040
Nußallee 12
53115 Bonn
Phone: +49-228-73 2341
Fax: +49-228-73 7869

This project has received

4093.

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FTD-Hadron

A transnational access infrastructure in the frame of Strong-2020.

Spokesperson & Access Manager
Prof. Dr. Hartmut Schmieden
University of Bonn
Physikalisches Institut
Nussallee 12
D-53115 Bonn
schmieden@physik.uni-bonn.de
Tel.: +49 228 73-2790 or -2341 (secretary)



Description of the infrastructure

Transnational Access is offered to Bonn University's *Forschungs- und Technologie-Zentrum Detektorphysik FTD (Research and Technology Centre Detector Physics)*. It represents a unique combination of infrastructures for hadron physics research and detector development, and includes

- The FTD research building with high-grade laboratory space and dedicated instrumentation,
- The 3.2 GeV electron accelerator ELSA, hosting two hadron physics experiments and a detector test beamline,
- The Bonn Isochronous Cyclotron, offering 14 MeV/nucleon ion beams mainly for material irradiation.

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○ webpage

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How to prepare proposals and specific access allowance forms

How to prepare a proposal:

Complete a cover sheet and add no more than 10 pages for a project description and motivation for the total access request and time plan.

For approved proposals:

Use the specific allowance request form sheet for each visit. In particular specify participating people, intended schedule, and technical requirements.

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○ Access procedure

- proposal by outside user group (UG)
- coordination & support by access coordinator & office
- peer-review by USP
- → accepted proposals:
- request (Lab-days / beam-hours) for each individual visit
- direct contact to experimental collaboration as appropriate
- technical support, computer & network access
- support on radiation safety issues
- ongoing projects with approved proposals accepted for TA

○ Current approved projects

Title	Contact	TA quota approved Request (18 months)			
		Lab days / no beam	ELSA beam hs.	beamline collab?	person days
η beam asymmetry	A. Fantini (Rome) A. Braghieri (Pavia)	10	50	BGO-OD	20
η' beam asymmetry	P. Levi Sandri (Frascati)	10	100	BGO-OD	50
multi quark states	T. Jude (Bonn) P. Levi Sandri (Frascati)	10	100	BGO-OD	50
K^* photoproduction	H. Schmieden (Bonn) V. Lisin (Moscow)	—	50	BGO-OD	10
Aerogel Č detector	A. Polonsky (Moscow)	10	36	BGO-OD	25
MWPC upgrade	P. Pedroni (Pavia)	10	—	BGO-OD	10
total foreseen in approved EU application					
18 months			525		375
48 months			1400		1000

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○ Current approved projects

Title	Contact	TA quota approved Request (18 months)	
		<u>expected next requests</u>	
η beam asymmetry	A. Fantini (Roma) A. Braghieri (Pavia)	– Crystal Barrel / TAPS Hadron experiments	
η' beam asymmetry	P. Levi Sandri (Pavia)	– COMPASS(++) Calorimeter tests @ test beamline	
multi quark states	T. Jude (Bonn) P. Levi Sandri (Pavia)	– ATLAS pixel detector tests	
<u>K* photoproduction</u>	H. Schmieden (Bonn) V. Lisin (Moscow)	– frozen spin polarised target	
Aerogel Č detector	A. Polonsky (Moscow)		
MWPC upgrade	P. Pedroni (Pavia)		
total foreseen in approved EU application			
18 months		525	375
48 months		1400	1000

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- Deliverable “Transnational Access provision - multi annual implementation plan over the first 18 months”

status Oct. 2019

period	min. beam-hours (AU) to be provided	no. of days @ infrastructure	
m. 1 – 18	525 336	375 165	currently approved
m. 19 – 36	525	375	
m. 1 – 48	1400	1000	

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