

Direct and Indirect Detection of Dark Matter

The 2nd DMNet International Symposium

Sep 13 – 15, 2022 Max Planck Institute for Nuclear Physics, Heidelberg, Germany Europe/Zurich timezone

Home

Timetable

Registration

List of Participants

Call for Abstracts

Social Events

Practical Information

Contact & Committees

Symposium Poster

The DMnet International Symposium is an annual symposium to tackle dark matter by putting various efforts in different research areas together. The second DMNet international symposium is held at the Max Planck Institute for Nuclear Physics in Heidelberg, Germany from September 13th to 15th, 2022. This year the symposium will focus especially on the topics of the direct and indirect detection of dark matter. We will discuss the various projects for the direct and indirect detection of dark matter including their theoretical sides, and synergy among them.

There is no registration fee. The meeting is essentially in-person, but requests for remote participation will be considered (please specify when you register). Please register by 1st Sep. Please note, the number of on-site participants may become limited due to the pandemic situation.

All the talks are invited except for a small number of slots for contributed talks. The symposium also has an in-person poster session where young participants are encouraged to submit their contributions related to dark matter. Requests for contributions, with title and abstract, must be submitted by 19th August.

The DMnet is "International Research Network to Reveal Dark Matter in the Universe by Multidisciplinary Approach in Particle and Astrophysics" (https://www.kmi.nagoya-u.ac.jp/jsps-core-to-core-program/) started in Kobayashi-Maskawa Institute for the Origin of Particles and Universe in 2020 supported by JSPS Core-to-Core Program.

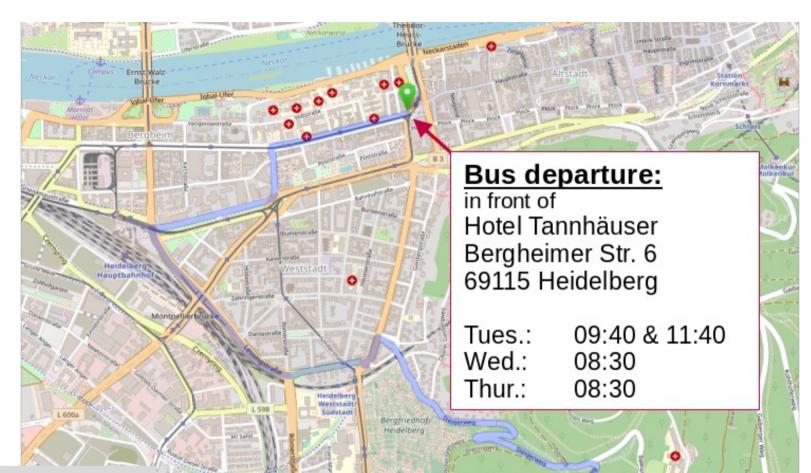
Direct and Indirect Detection of Dark Matter

The 2nd DMNet International Symposium

Monday	Tuesday	Wednesday	Thursday	Friday
	closed DMnet session	sessions	sessions	closed DMnet session
	sessions	excursion		
		evening session at IWH		
	posters & welcome reception	conference dinner		

All coffee breaks, lunches, recepion → at MPIK

Practical information: Shuttle buses



Other options

Public transport:

- bus number 39
- schedule in front of lecture hall

Taxi:

- takes 5 minutes to order; costs ~10€
- can be ordered via conference desk

Locals....

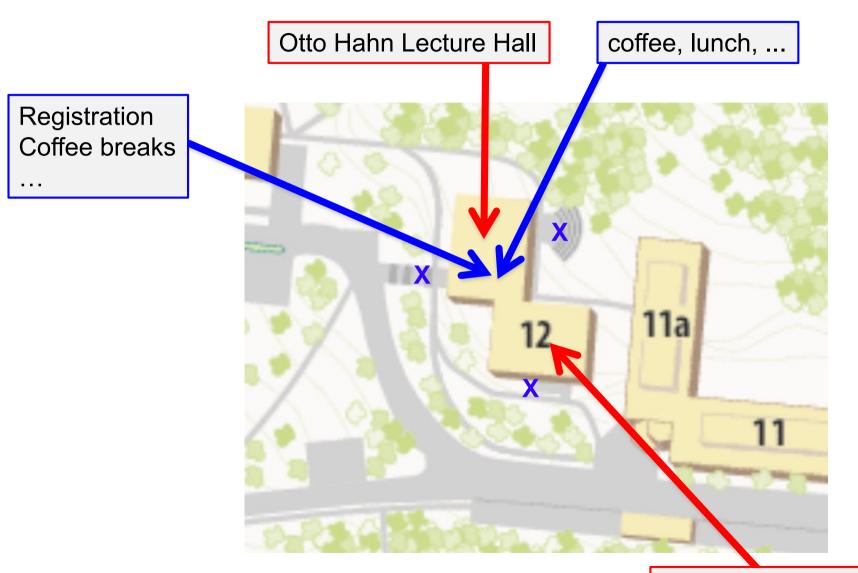
Max-Planck-Institut für Kernphysik:

bus departures

Tues.: 18:00 Wed.: 13:50

Thur.: 18:00

Conference Venue



Central Seminar Room

Covid

In Germany in general:

- Most protective measures are in general no longer in place
- Masks are obligatory in planes, trains, public transport, hospitals or similar

Covid rules at MPIK:

- Make use of self-tests at the hotel before coming to MPIK
 - → catches many cases effectively before symptoms appear
- Maintain reasonable distancing (spread over lecture rooms, coffee outside)
- Wear masks whenever distancing cannot be sufficiently maintained
- Any signs of symptoms: self-test → PCR test → inform us

Still relevant?

- List of testing services in Heidelberg:
 https://www.heidelberg.de/hd/testangebote+in+heidelberg.html
- Need a test before traveling home? → ask us
- → ask us if you need any help / advice

Practical information:

Talks:

- All talks → uploaded to Indico or sent to wsorg@mpi-hd.mpg.de < 1hr before

Coffee breaks, lunches, reception, BBQ → at the conference site

Internet:

- eduroam → just connect
- ask at conference desk for personal access code

Sessions:

- Session chairs → stay in time; shown times INCLUDE discussion time
- Q&A: Wait for microphone for questions / comments

Excursion & Conference Dinner

detailed announcements with details to come

Some quick details about MPIK

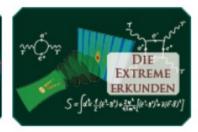
MPG – Max Planck Gesellschaft:

~80 Max-Planck institutes (MPIs), 2-8 divisions each, ~16.000 employees, budget ~1.6Bn€

MPIK: 5 divisions, ~450 people, physics program around two themes











Particle and astroparticle physics quantum dynamics

various well known activities in the past: GALLEX, GNO, HdM, Borexino, Double Chooz, ...

HESS, CTA, LHCb, GERDA, Double Chooz, LEGEND200, STEREO, CONUS XENON100, XENON1T, ...nT theory:

- neutrinos
- dark matter
- beyond the Standard Model
- early universe
- high energy astrophysics



Today's Program

12:00		
12:00	Lunch Break / Registration	
13:00		
	Max Planck Institute for Nuclear Physics, Heidelberg, Germany	12:00 - 13:20
	Opening Adress 1	
	Max Planck Institute for Nuclear Physics, Heidelberg, Germany	13:20 - 13:30
	Opening Adress 2	
	Max Planck Institute for Nuclear Physics, Heidelberg, Germany	13:30 - 13:40
	DM models, properties and particle physics candidates	Dr Takashi Toma
14:00	Max Planck Institute for Nuclear Physics, Heidelberg, Germany	13:40 - 14:20
	dark matter distribution/ J factor	Kohei Hayashi
	Max Planck Institute for Nuclear Physics, Heidelberg, Germany	14:20 - 15:00
15:00	Review of Wino-like dark matter	Junji HISANO
	Max Planck Institute for Nuclear Physics, Heidelberg, Germany	15:00 - 15:40
	Coffe break	
	Max Planck Institute for Nuclear Physics, Heidelberg, Germany	15:40 - 16:00
16:00	Searching for Dark Matter with HyperK	Nicole Bell
	Max Planck Institute for Nuclear Physics, Heidelberg, Germany	16:00 - 16:25
	Dark matter in galaxy clusters from X-ray & SZ effect	Stefano Ettori
	Max Planck Institute for Nuclear Physics, Heidelberg, Germany	16:25 - 16:45
	Poster Session & Welcome Reception	
17:00	Posters & Welcome reception	
	Max Planck Institute for Nuclear Physics, Heidelberg, Germany	16:45 - 17:45
	Max Planck Institute for Nuclear Physics, Heidelberg, Germany	16:45 - 17:



Enjoy the Symposium!