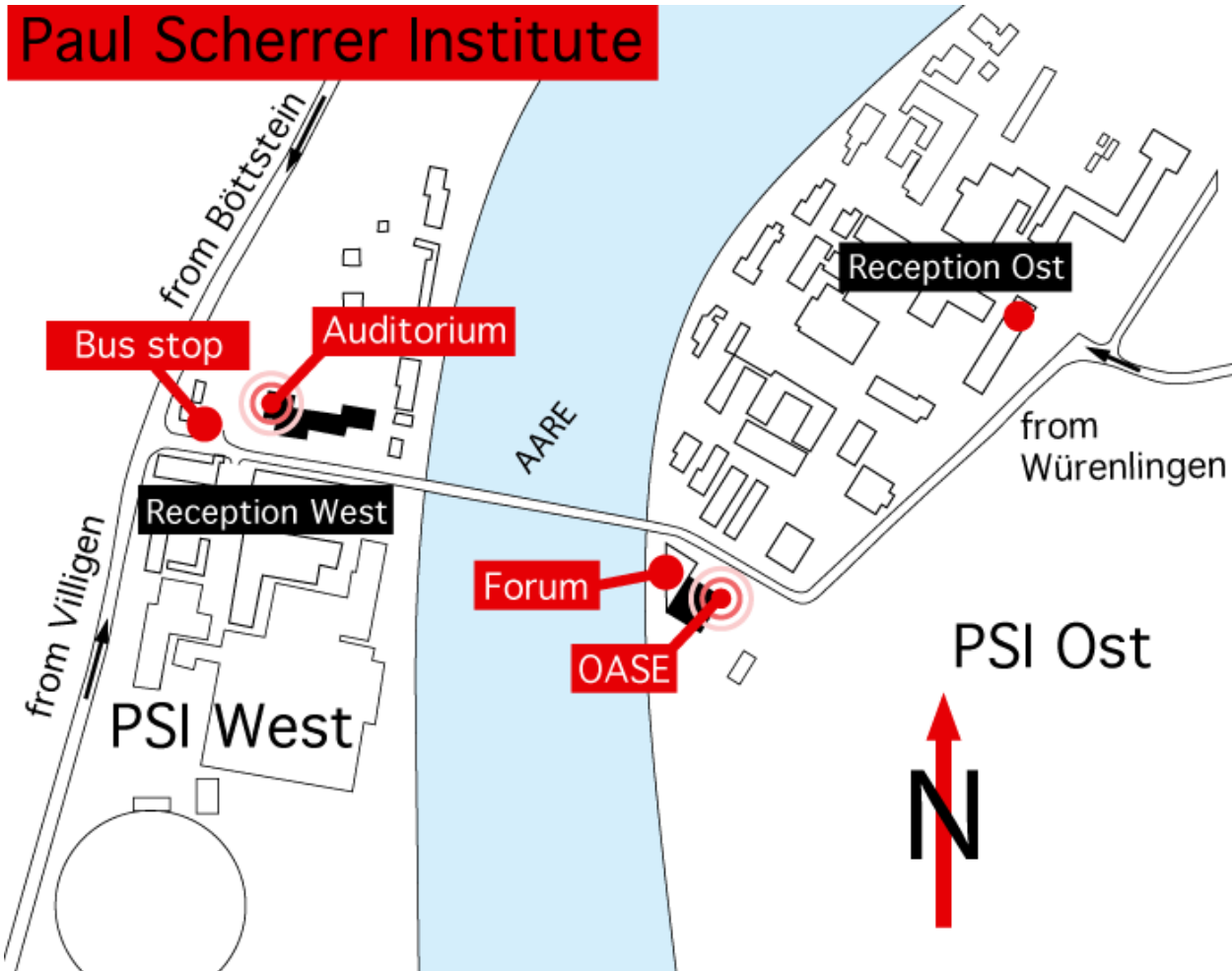




Klaus Kirch :: Laboratory for Particle Physics :: Paul Scherrer Institute

Physics of fundamental symmetries and interactions

PSI2019, October 21



← Basel

Germany ↑

Aarau/Bern ↓

Zurich →

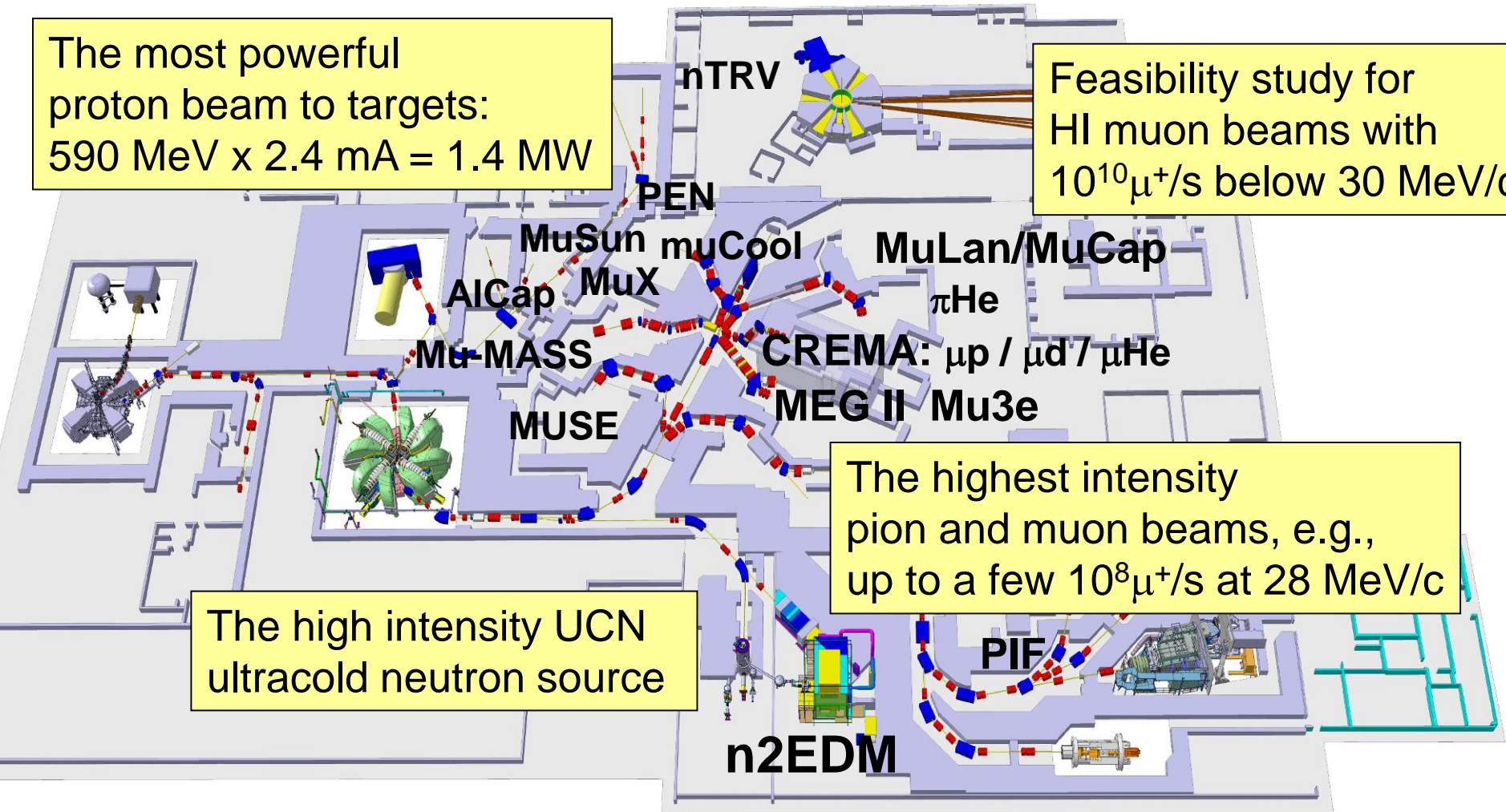


The intensity frontier at PSI: π , μ , UCN

Precision experiments with the lightest unstable particles of their kind

The most powerful
proton beam to targets:
 $590 \text{ MeV} \times 2.4 \text{ mA} = 1.4 \text{ MW}$

Feasibility study for
HI muon beams with
 $10^{10} \mu^+/\text{s}$ below $30 \text{ MeV}/c$



The high intensity UCN
ultracold neutron source

The highest intensity
pion and muon beams, e.g.,
up to a few $10^8 \mu^+/\text{s}$ at $28 \text{ MeV}/c$

Swiss national laboratory with strong international collaborations

PSI ring cyclotron

590 MeV protons,
2.4 mA, 1.4 MW,
50 MHz, ~180 turns,
losses at extraction
<200 W

We are starting a two year
long design study for
higher intensity muon
beams for particle physics
and muSR experiments.

Please also expect some
topical workshops over
the next two years to lay
out the sciene program for
such a facility with up to
 $10^{10}/s$ surface muons.

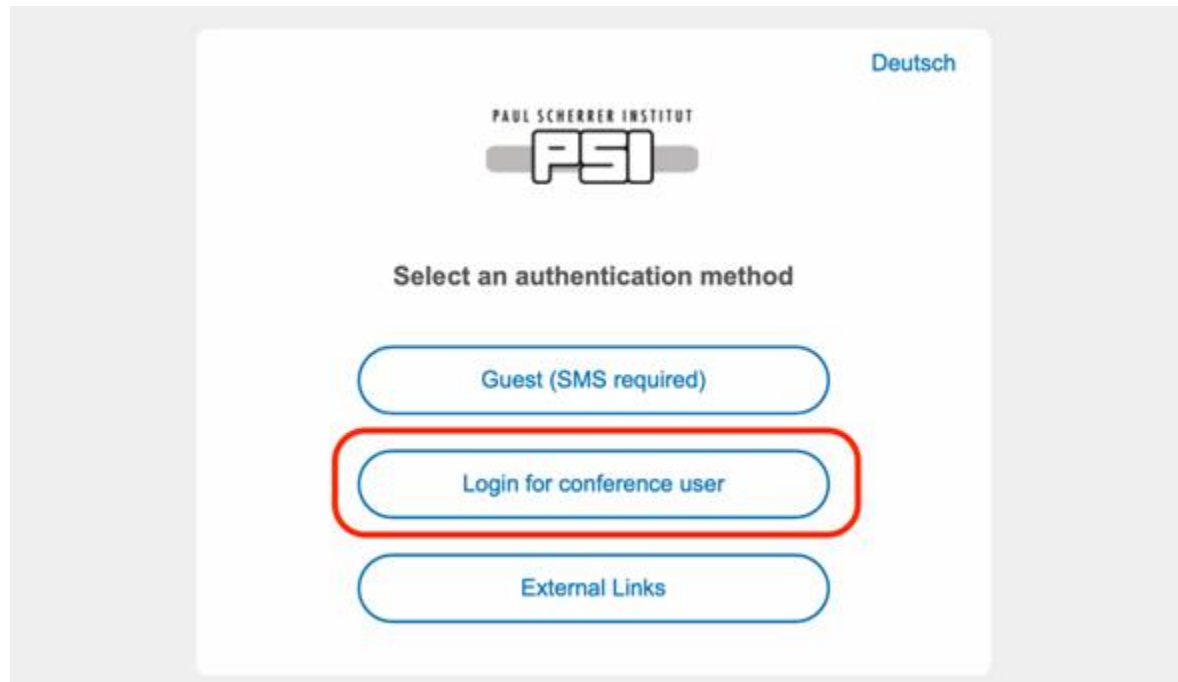
Of course, we will
welcome your
involvement!

How to get back to the hotel?

- Buses will leave PSI on Monday and Wednesday after the last session (probably at 18:00)
- On Tuesday after the poster session (BBQ&drinks)
- On Thursday buses will leave from the Trotte in Villigen after the conference dinner
- **Don't forget: The bus can't wait in front of Hotel Linde and will depart in the mornings at 8:05 sharp!**
- More information in the course of the week

How to connect to the WLAN?


- Select network “guest”
- Chose “Login for conference user”
- Accept terms and conditions
- Enter username: **wlan-conf** and password: **HoyAxo66**



- or simply connect to eduroam

How do I upload my presentation?

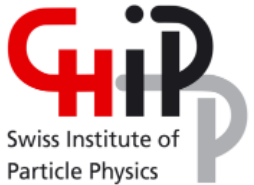
- upload your slides **at least three hours before your session** starts to INDICO either in PDF or in PowerPoint format.
- log in to INDICO at <https://indico.psi.ch/e/psi2019>. Click on "Login" at the top right corner. If you forgot your password, please use the password recovery mechanism. If you do not have an INDICO account, please create one with exactly the same password you used to register for this workshop.
- To upload your slides, find your contribution on the list of contributions and click on the material editor. **Alternative upload on the workshop website!**
- The presenting PC will be a Macintosh, and we have a Windows PC upon request. Please make sure to embed special fonts or animations directly in your presentation to avoid unreadable characters.
- If nothing else works, you can come during the breaks with a USB stick of your presentation to the control panels in front of the stage. Please do that **at least 15 minutes before your session starts**.
- **We plan to broadcast all talks via video conferencing, so that colleagues who could not make it to the workshop can see it as well. If you do not want this, please contact Stefan Ritt**

A solid grey square is located to the left of the text.

Please turn in your posters today:
we will put them up for you

Thank you for coming to the PSI2019!

We are looking forward to a very exciting workshop on our diverse field of research with lots of progress, many new ideas and great results



Swiss Academy of Sciences
Akademie der Naturwissenschaften
Accademia di scienze naturali
Académie des sciences naturelles

