

---

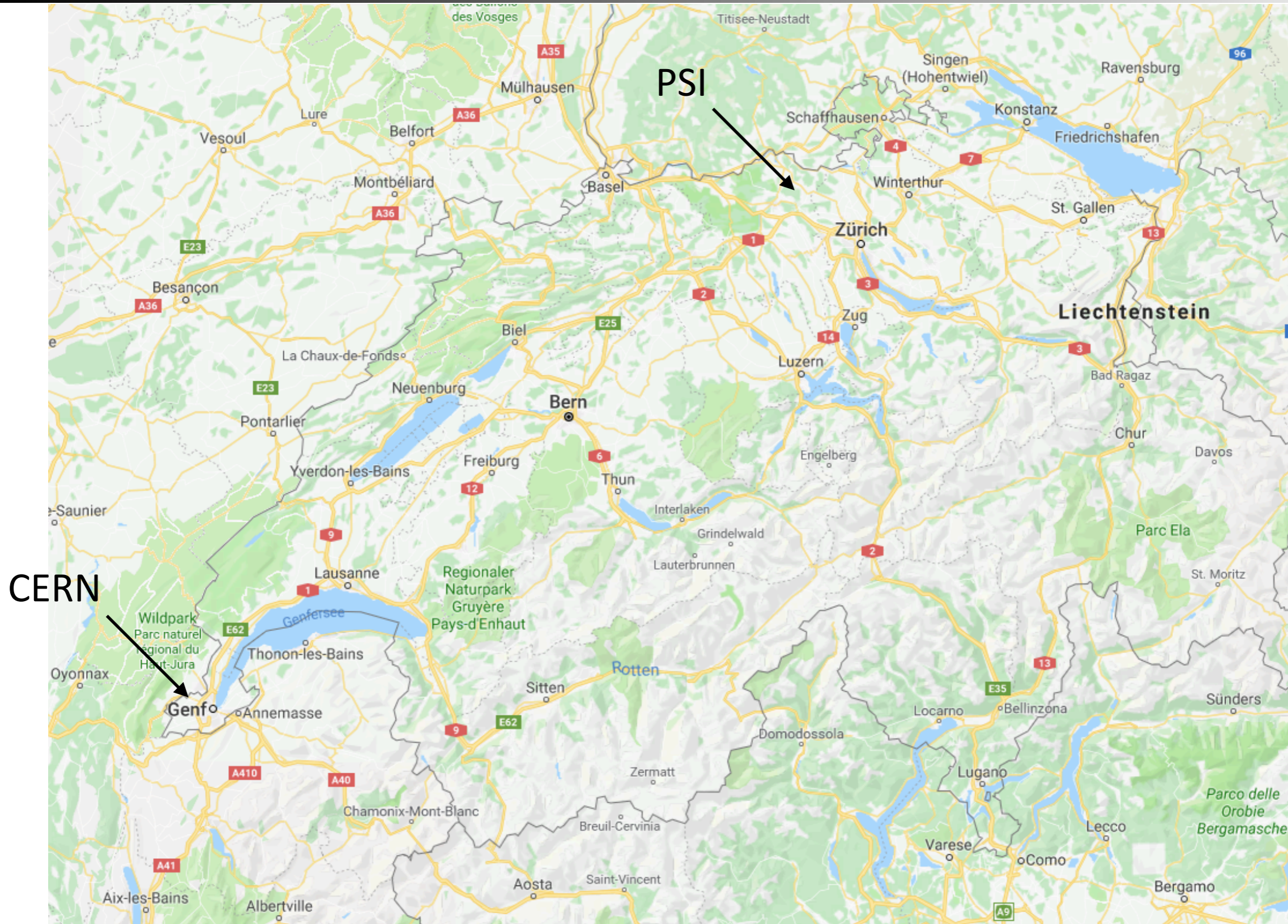
# PSI Requirements

Andreas Knecht  
Paul Scherrer Institute

19. 4. 2021  
OMC4DBD Collaboration Meeting

---

# Location of Paul Scherrer Institute



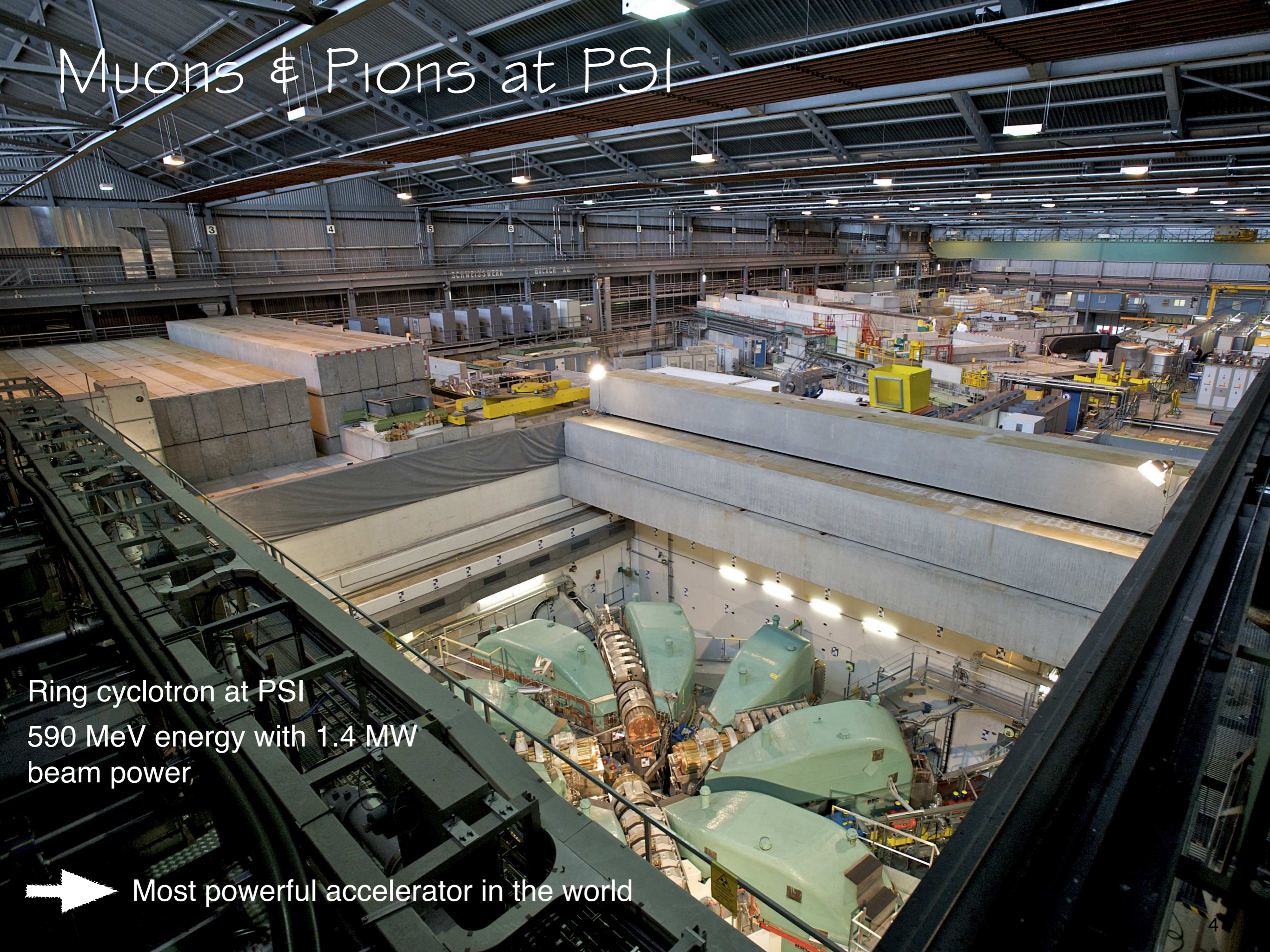


# Location of Paul Scherrer Institute





# Muons & Pions at PSI



Ring cyclotron at PSI  
590 MeV energy with 1.4 MW  
beam power,



Most powerful accelerator in the world



# PSI Proton Accelerator HIPA

Location of our  
experiment

Spallation source SINQ

Cockcroft-Walton

Muon target stations TgM & TgE  
7 beamlines for particle  
physics and material science

Injector cyclotron

590 MeV cyclotron  
2.4 mA, 1.4 MW  
50 MHz

Proton therapy

Spallation source for  
ultracold neutrons  
nEDM experiment

# Coming to PSI

---

- ▶ Register your stay here: <https://duo.psi.ch/duo/>
  - ▶ Also book badge, guesthouse, dosimeter through the website
  - ▶ More information on the guesthouse here: <https://www.psi.ch/en/guesthouse>
  - ▶ In case you stay > 8 days and are not from EU -> need work permit -> register well in advance (8 weeks)! Our secretary ([anita.vanloon@psi.ch](mailto:anita.vanloon@psi.ch)) will help with compiling the necessary documents and send it to the administration.
  - ▶ Don't forget also general visa requirements.
- ▶ General help & info: User office at PSI <https://www.psi.ch/en/useroffice>

# Coming to PSI II

---

- ▶ Current Covid regulations:
  - ▶ PSI rules: <https://www.psi.ch/en/useroffice/news/new-information-flyer-user-operation-during-covid-19-period>
  - ▶ In addition, will need to fill out contact diary while at PSI
  - ▶ Entering Switzerland: <https://www.bag.admin.ch/bag/en/home/krankheiten/ausbrueche-epidemien-pandemien/aktuelle-ausbrueche-epidemien/novel-cov/empfehlungen-fuer-reisende/quarantaene-einreisende.html>
  - ▶ By the way, quarantine cannot be done in the guesthouse

# Remote connections to PSI

---

- ▶ PSI is behind a firewall
- ▶ For any remote connection, you will need a PSI computing account (let me know well in advance)
- ▶ With this account ssh access to [hop.psi.ch](https://hop.psi.ch) and then further will be possible: <https://www.psi.ch/en/computing/ssh-hop>
- ▶ No VPN access to computers will be possible for external people
- ▶ If the DAQ is controlled through a web server access to that webserver might be possible. It would still need a PSI computing account for each person, though.



# Beam schedule



## PSI 590 MeV Program 2021

<https://www.psi.ch/de/sbl/schedules>

<stefan.ritt@psi.ch>

Last update: 4/19/2021 14:02:38

|        |                    |                  | Month                |         | April   |         | May     |         | June    |         | July    |         | August  |         | September |         | October |         | November |         | December |         |         |         |         |         |         |         |         |          |          |          |          |         |          |          |          |          |          |          |    |
|--------|--------------------|------------------|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|---------|---------|---------|----------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|---------|----------|----------|----------|----------|----------|----------|----|
|        |                    |                  | Week number          | 14      | 15      | 16      | 17      | 18      | 19      | 20      | 21      | 22      | 23      | 24      | 25        | 26      | 27      | 28      | 29       | 30      | 31       | 32      | 33      | 34      | 35      | 36      | 37      | 38      | 39      | 40       | 41       | 42       | 43       | 44      | 45       | 46       | 47       | 48       | 49       | 50       | 51 |
|        |                    |                  | Availability         | [Red]   |         | [Green] |         | [Green] |         | [Green] |         | [Green] |         | [Green] |           | [Green] |         | [Green] |          | [Green] |          | [Green] |         | [Green] |         | [Green] |         | [Green] |         | [Green]  |          | [Green]  |          | [Green] |          | [Green]  |          | [Green]  |          |          |    |
|        |                    |                  | Days                 | 0       | 7       | 3       | 7       | 6       | 7       | 3       | 7       | 7       | 7       | 3       | 7         | 6       | 7       | 3       | 7        | 6       | 4        | 5       | 7       | 7       | 6       | 7       | 3       | 7       | 7       | 6        | 7        | 3        | 7        | 7       | 6        | 7        | 7        | 6        | 7        |          |    |
|        |                    |                  | Start (Monday)       | 4/5/21  | 4/12/21 | 4/19/21 | 4/26/21 | 5/3/21  | 5/10/21 | 5/17/21 | 5/24/21 | 5/31/21 | 6/7/21  | 6/14/21 | 6/21/21   | 6/28/21 | 7/5/21  | 7/12/21 | 7/19/21  | 7/26/21 | 8/2/21   | 8/9/21  | 8/16/21 | 8/23/21 | 8/30/21 | 9/6/21  | 9/13/21 | 9/20/21 | 9/27/21 | 10/4/21  | 10/11/21 | 10/18/21 | 10/25/21 | 11/1/21 | 11/8/21  | 11/15/21 | 11/22/21 | 11/29/21 | 12/6/21  | 12/13/21 |    |
|        |                    |                  | End (Sunday)         | 4/11/21 | 4/18/21 | 4/25/21 | 5/2/21  | 5/9/21  | 5/16/21 | 5/23/21 | 5/30/21 | 6/6/21  | 6/13/21 | 6/20/21 | 6/27/21   | 7/4/21  | 7/11/21 | 7/18/21 | 7/25/21  | 8/1/21  | 8/8/21   | 8/15/21 | 8/22/21 | 8/29/21 | 9/5/21  | 9/12/21 | 9/19/21 | 9/26/21 | 10/3/21 | 10/10/21 | 10/17/21 | 10/24/21 | 10/31/21 | 11/7/21 | 11/14/21 | 11/21/21 | 11/28/21 | 12/5/21  | 12/12/21 | 12/19/21 |    |
| Area   | Experiment         | PSI Contact      |                      |         |         |         |         |         |         |         |         |         |         |         |           |         |         |         |          |         |          |         |         |         |         |         |         |         |         |          |          |          |          |         |          |          |          |          |          |          |    |
| PiM3   | MuSR (GPS&LTF)     | Amato            | Amato (coord.)       |         |         |         |         |         |         |         |         |         |         |         |           |         |         |         |          |         |          |         |         |         |         |         |         |         |         |          |          |          |          |         |          |          |          |          |          |          |    |
| PiE3   | MuSR high field    | Scheuermann      | Scheuermann (coord.) |         |         |         |         |         |         |         |         |         |         |         |           |         |         |         |          |         |          |         |         |         |         |         |         |         |         |          |          |          |          |         |          |          |          |          |          |          |    |
| MuE1   | MuSR (GPD)         | Amato            | Amato (coord.)       |         |         |         |         |         |         |         |         |         |         |         |           |         |         |         |          |         |          |         |         |         |         |         |         |         |         |          |          |          |          |         |          |          |          |          |          |          |    |
| MuE4   | MuSR (LEM)         | Prokscha         | Prokscha (coord.)    |         |         |         |         |         |         |         |         |         |         |         |           |         |         |         |          |         |          |         |         |         |         |         |         |         |         |          |          |          |          |         |          |          |          |          |          |          |    |
| PiE1-1 | MuSR (Dolly)       | Amato            | Amato (coord.)       |         |         |         |         |         |         |         |         |         |         |         |           |         |         |         |          |         |          |         |         |         |         |         |         |         |         |          |          |          |          |         |          |          |          |          |          |          |    |
|        | R-21-02.1 muon EDM | Schmidt-Wellenb. | Schmidt-Wellenb.     |         |         |         |         |         |         |         |         |         |         |         |           |         |         |         |          |         |          |         |         |         |         |         |         |         |         |          |          |          |          |         |          |          |          |          |          |          |    |
| PiE1-2 | MIXE               | Amato            | Amato/Knecht         |         |         |         |         |         |         |         |         |         |         |         |           |         |         |         |          |         |          |         |         |         |         |         |         |         |         |          |          |          |          |         |          |          |          |          |          |          |    |
|        | R-20-01.1          | Knecht           | Zinatulina           |         |         |         |         |         |         |         |         |         |         |         |           |         |         |         |          |         |          |         |         |         |         |         |         |         |         |          |          |          |          |         |          |          |          |          |          |          |    |
|        | R-21-03.1          | Antognini        | Knaian               |         |         |         |         |         |         |         |         |         |         |         |           |         |         |         |          |         |          |         |         |         |         |         |         |         |         |          |          |          |          |         |          |          |          |          |          |          |    |
|        | R-08-01.3          | Knecht           | Kravchenko           |         |         |         |         |         |         |         |         |         |         |         |           |         |         |         |          |         |          |         |         |         |         |         |         |         |         |          |          |          |          |         |          |          |          |          |          |          |    |
|        | Muonium            | Antognini        | Soter                |         |         |         |         |         |         |         |         |         |         |         |           |         |         |         |          |         |          |         |         |         |         |         |         |         |         |          |          |          |          |         |          |          |          |          |          |          |    |

- ▶ Beam time starts on October 11
- ▶ Service period during week 42 (beam development Monday & Thursday, shutdown Tuesday & Wednesday)