



WIR SCHAFFEN WISSEN – HEUTE FÜR MORGEN

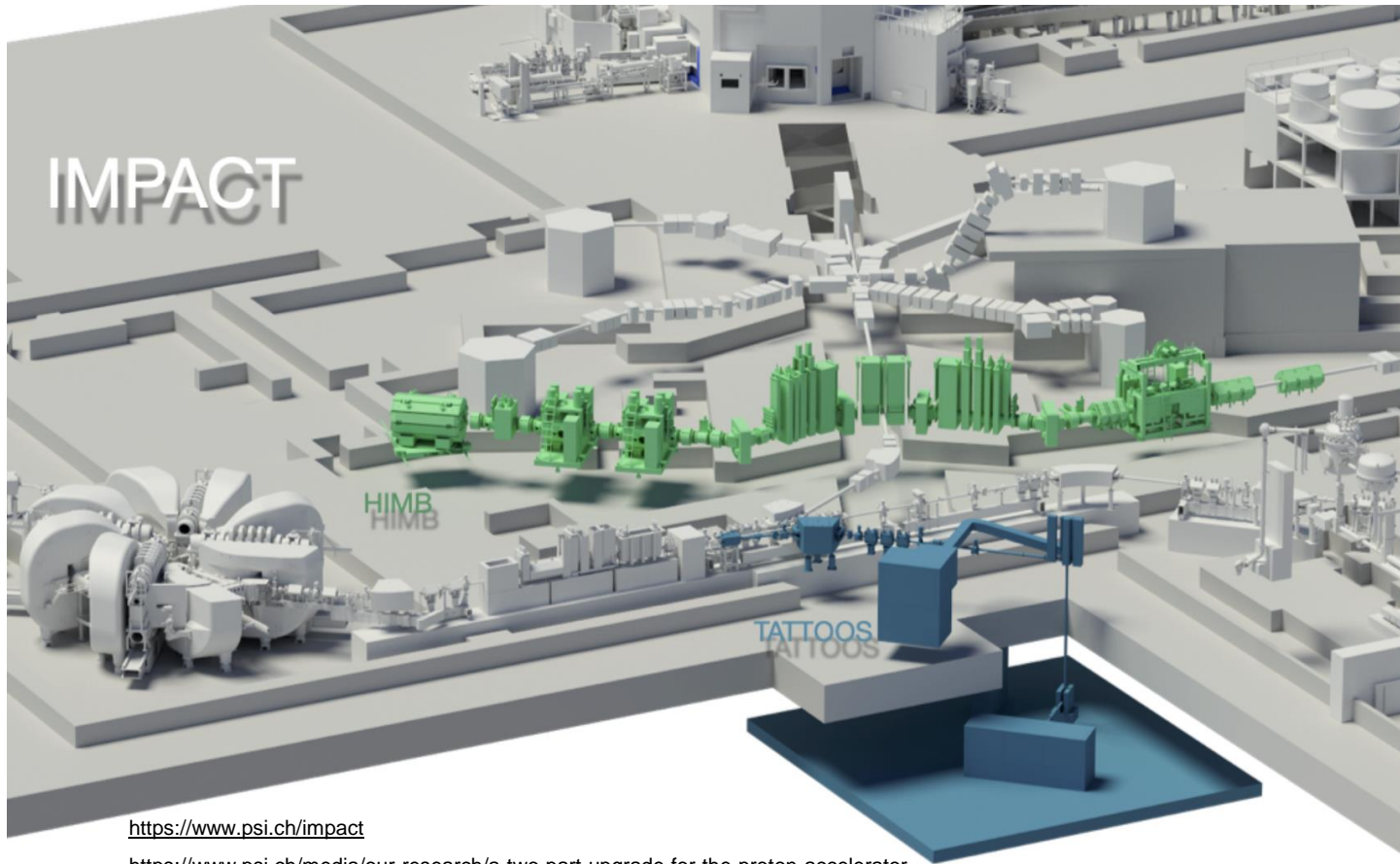
K. Kirch :: NUM :: Paul Scherrer Institut

BVR 2023 – CHRISP Open Users' Meeting

A very warm welcome to you at PSI

BVR54, PSI, January 24, 2023

IMPACT on track!

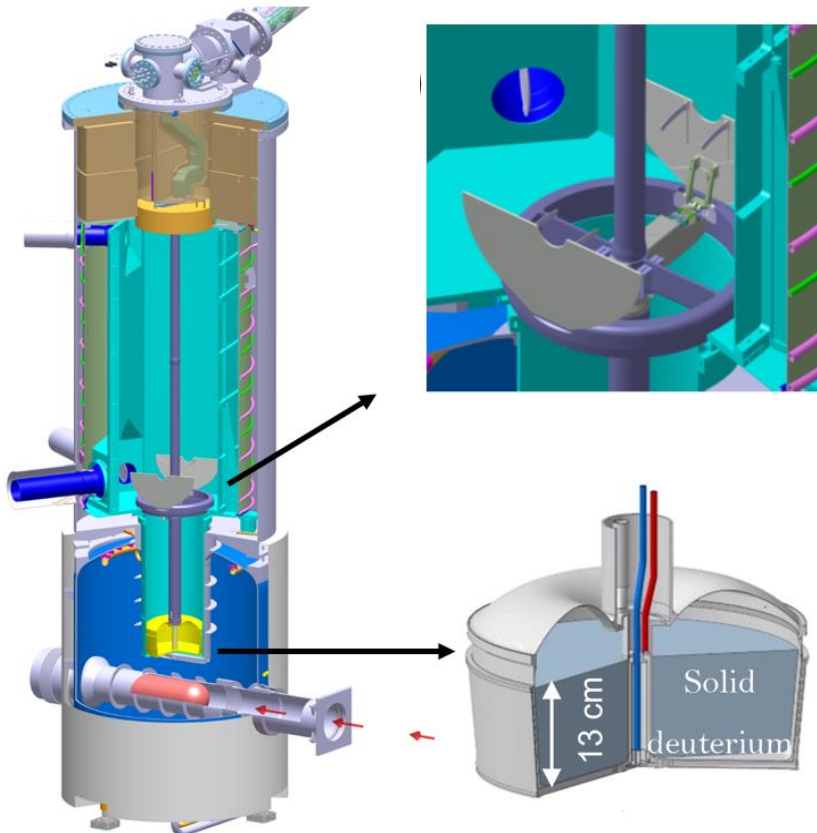


- 01/22 Conceptual Design Report published ✓
- 07/22 Results of Scientific Review ✓
- 12/22 ETH Board proposes IMPACT for Swiss Roadmap of Research Infrastructures 2023 ✓
- 2022-24 PSI funds by DIR, NUM, GFA, BIO, NES ✓
- 12/24 Final decision by Swiss parliament concerning funding 2025-28

UCN Source



The UCN source is operational since 2011. Replacing the central moderator insert by 2026 will make it fit for next 10-15 years.



	2023	2024	2025	2026
Design Simulationen	█			
Konstruktion	█			
Technische Tests	█			
Fertigung		█		
Zusammenbau			█	
Installation in Quelle				◆
Erste Abkühlung				◆
Entsorgung	█	█		
Bewilligung			█	

While the flapper vacuum failure in the UCN source is not a limiting problem in its present condition, a progressive failure could have serious implications for the n2EDM experiment. As the UCN source is obviously essential for this experiment, we strongly encourage the collaboration to work with PSI to start the design process for a UCN insert replacement as soon as possible and report to the BVR next year on its progress.



Congratulations to

Max Zoller, LTP Theory Group
SNSF Starting Grant UZH/PSI

*High-precision scattering amplitudes for the LHC and lepton colliders
from automated NNLO calculations*

<https://www.admin.ch/gov/en/start/documentation/media-releases.msg-id-92259.html>



December 2022

Harald Ita

LTP Theory Group

Associate Professor
ad personam at UZH



November 2022

Harald is an expert in the field of theoretical high-energy particle physics.



October 2022

Mario Liechti (former electronics apprentice in LTP) won a silver medal at the WorldSkills 2022.

<https://www.psi.ch/en/media/our-research/silver-medal-in-electronics-for-mario-liechti>



Melvin Deubelbeis (former electronics apprentice in LTP) won a gold medal at the SwissSkills 2022.

<https://www.psi.ch/en/media/our-research/the-gold-medal-and-a-handshake-from-the-federal-councillor>



Philipp Schmidt-Wellenburg, LTP Muon Physics Group ERC (SNSF) Consolidator Grant

Search for the muon electric dipole moment using the frozen-spin technique

<https://www.psi.ch/en/media/our-research/two-million-swiss-francs-granted-to-search-for-new-physics>



March 2022

Aldo Antognini

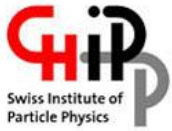
LTP Muon Physics and ETHZ

Awarded title of Adjunct Professor at ETH Zurich

The 25th PSI summer school on Particle Physics in Zuoz: „Vision and Precision“ Aug 14 – 20, 2022

90 participants (52 CH, 30 EU, 8 non EU) and 7 lecturers

Supported by



sc|nat

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



PSI 2022

6th Workshop on the **P**hysics of fundamental **S**ymmetries and **I**nteractions at low energies and the precision frontier

Oct. 16-21, 2022

Paul Scherrer Institute
 Switzerland

Topics:

- Low energy precision tests of the Standard Model
- Experiments with muons, pions, neutrons, antiprotons, other particles and atoms
- Searches for permanent electric dipole moments
- Searches for symmetry violations and new forces
- Precision measurements of fundamental constants
- Exotic atoms and molecules
- New tools and facilities

International Advisory Committee

A. Baldini	INFN & U. Pisa	H. Shimizu	Nagoya Univ.
L. Baudis	Univ. Zurich	E. Widmann	SMI - Vienna
D. Bryman	Univ. British Columbia	O. Zimmer	ILL - Grenoble
G. Colangelo	Univ. Bern		
S. Davidson	CNRS Montpellier		
B.W. Filippone	CALTECH		
K. Jungmann	Univ. Groningen		
P. Kammel	Univ. Washington		
Y. Kuno	Osaka Univ.		
T. Mori	Univ. Tokyo		
L. Roberts	Boston Univ.		

Organizing Committee

K. Kirch	ETHZ & PSI
B. Lauss	PSI
S. Ritt	PSI
A. Signer	PSI & Univ. Zurich
A. Van Loon-Govaerts	PSI



NuPECC

PSI 2022



Local organizers: K. Kirch, B. Lauss, S. Ritt, A. Signer, A. Van Loon



Picture: S.Ritt/PSI

Photo: Scanderbeg Sauer Photography

183 Participants

(73 CH, 25 DE, 20 JP, 17 FR, 16 USA, 8 IT, 7 AT, 4 PL, 4 CA, 3 BE, 2 IN, 1 TW, 1 UK, 1 NL, 1 RU)

61 oral presentations, 81 posters, 3 sponsored poster prizes (NuPECC, PSI)

10% theoretical, 90% experimental,

25% related to experimental activities at PSI,

30% related to neutrons, 30% to pions and muons, 40% others

Satellite Workshops on muonic atoms, Oct 14/15, 57 participants

Next users' meeting

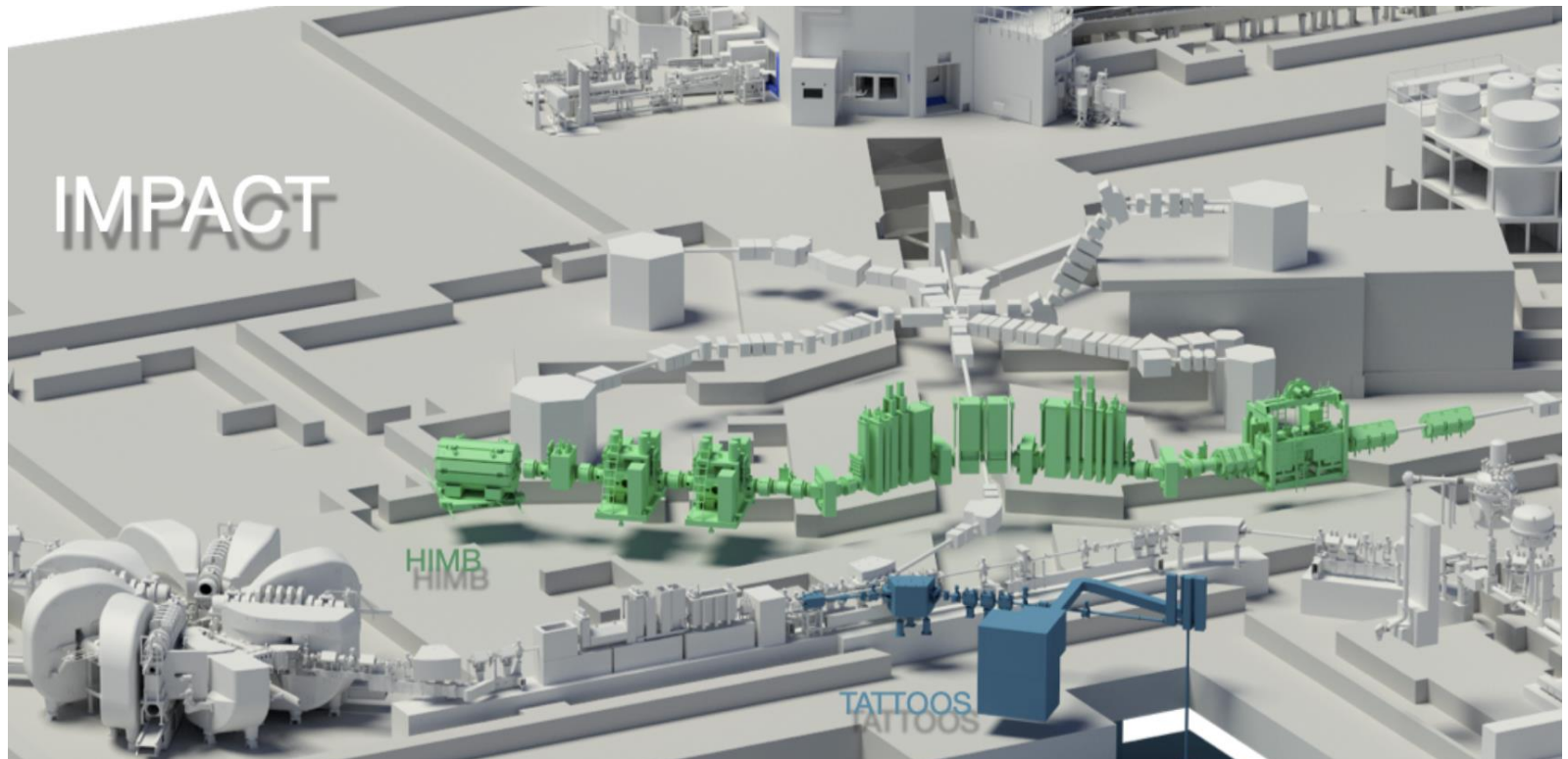
Please note the date for the next
CHRISP users' meeting and review BV55:

Mo-Wed, Feb 5-7 , 2024

[Deadline: Jan 22 ,2024]

To appear here: <https://www.psi.ch/en/sbl/call-for-beam-time-requests>

IMPACT on track!



TUESDAY, JANUARY 24

2:00 PM → 2:45 PM

Opening

Convener: brad filippone (caltech)

2:00 PM

Opening of BV

Speaker: Brad Filippone (caltech)

⌚ 5m

2:05 PM

Welcome, PSI News

Speaker: Klaus Stefan Kirch (PSI - Paul Scherrer Institut)

⌚ 10m

2:15 PM

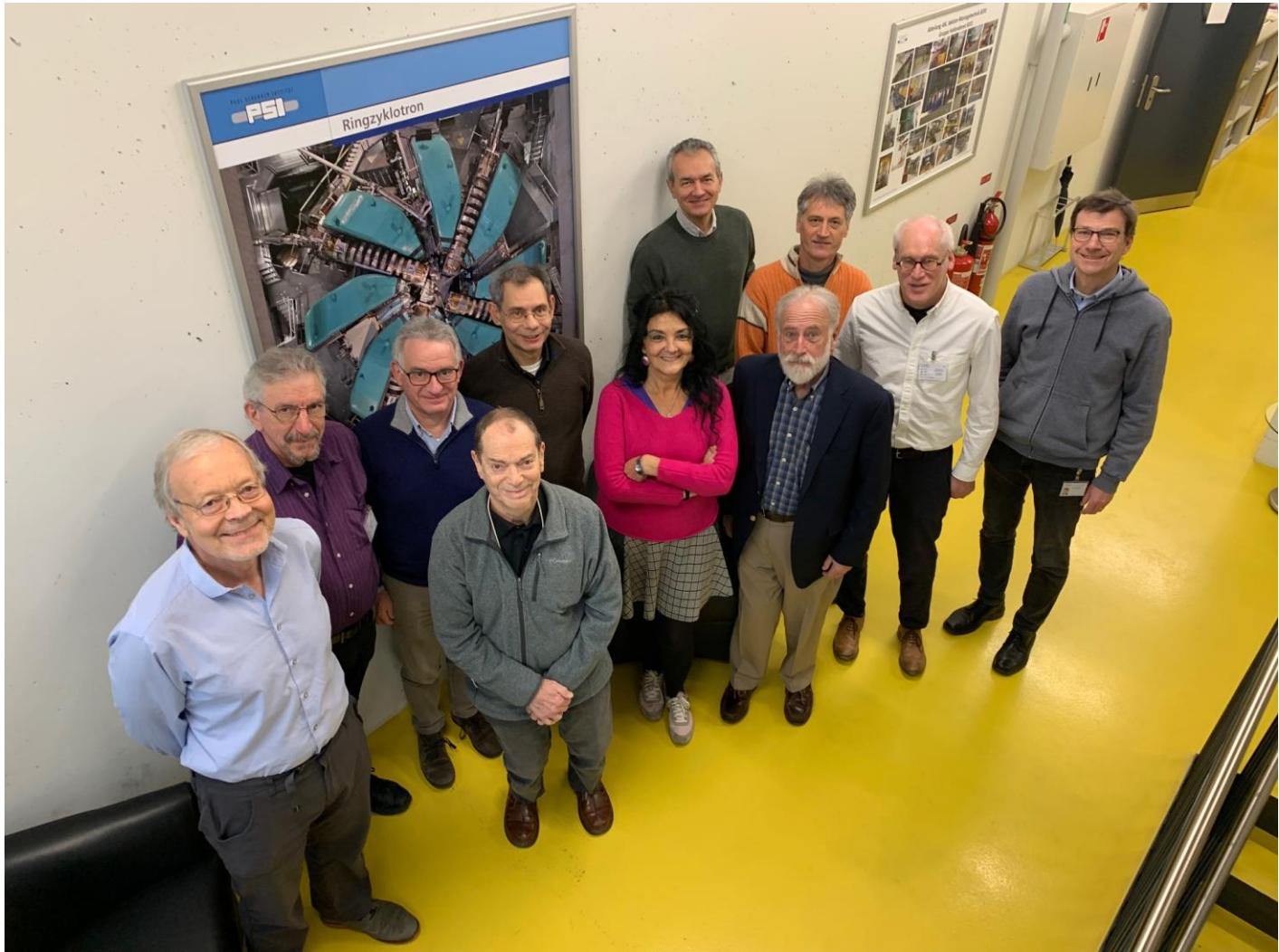
The IMPACT project: Upgrading HIPA with two new target stations HIMB & TATTOOS

Invited Talk

Speaker: Andreas Knecht (Paul Scherrer Institut)

⌚ 30m

BVR Committee members – 2023 meeting



Thank you!