



Elettra Sincrotrone Trieste

# POCPA7

## Power Converters for Particle Accelerators

In-Person!

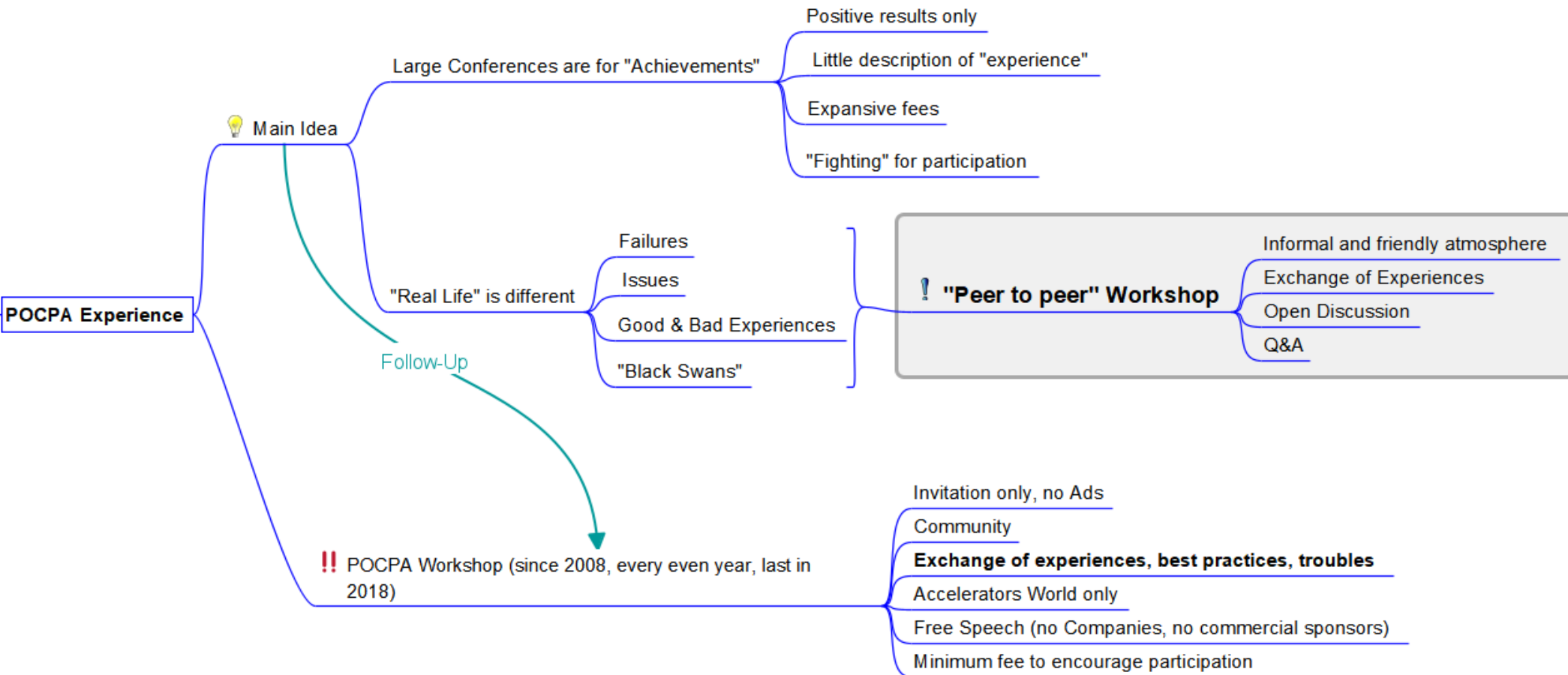
2018 – 2023: Back to the ~~Future!~~

Roberto Visintini

Elettra Sincrotrone Trieste

# The idea behind the workshop...

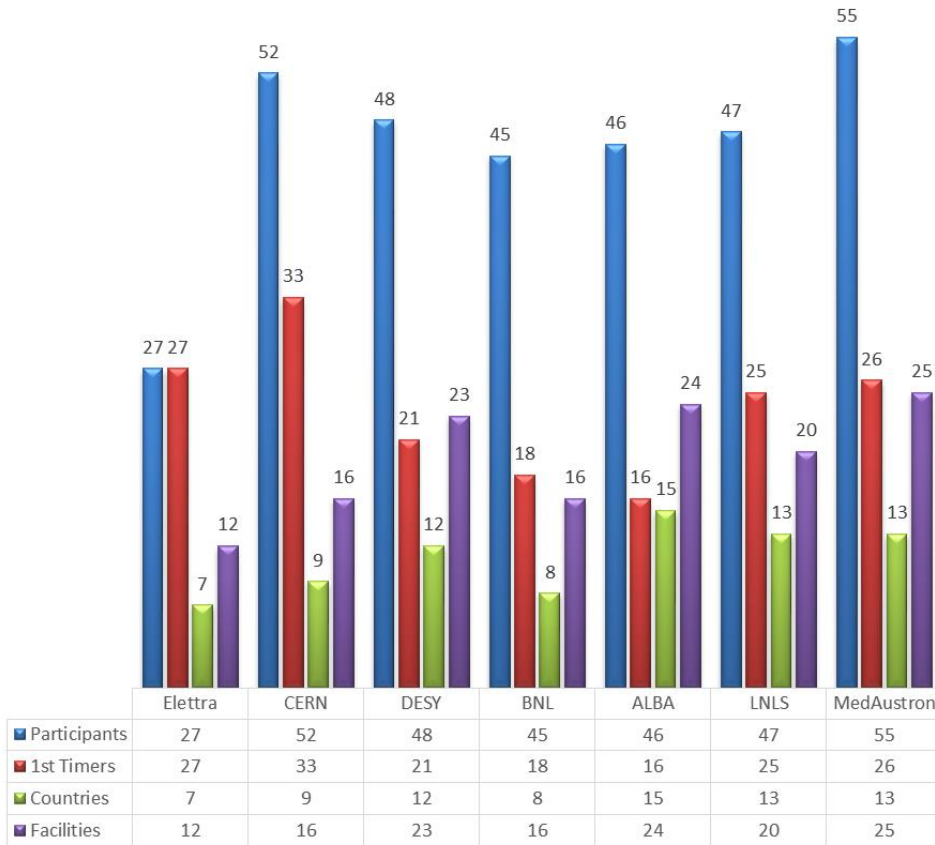
It should be known but we always have so many "First-Timers"...



# POCPA Community

Edition	Year	Host Lab	Participants	1st Timers	% of 1stT	Countries	Facilities
1	2008	Elettra	27	27	100%	7	12
2	2010	CERN	52	33	63%	9	16
3	2012	DESY	48	21	44%	12	23
4	2014	BNL	45	18	40%	8	16
5	2016	ALBA	46	16	35%	15	24
6	2018	LNLS	47	25	53%	13	20
7	2023	MedAustron	55	26	47%	13	25
Average (exl. POCPA1)			49	24	48%	12	21

POCPA Editions



- ✓ Website and mailing list managed by CERN
- ✓ ~140 registered specialists
- ✓ ~38 Facilities worldwide
- ✓ 21 Countries
- ✓ 4 Continents (all besides Africa)

(Data from POCPA website)

# Previous editions

- ✓ POCPA1 2008 (Elettra) on “Reliability”
- ✓ POCPA2 2010 (CERN) on “Safety”
- ✓ POCPA3 2012 (DESY) on “Digital Regulation and Control”, with tutorials
- ✓ POCPA4 2014 (BNL) on “Maintenance, best strategies and practices”
- ✓ POCPA5 2016 (ALBA) on “Performance Specification, Reviewing and Testing for Power supplies and Subsystems”
- ✓ POCPA6 2018 (LNLS) on “Efficiency and integration with other systems”

# POCPA7 Main Topic

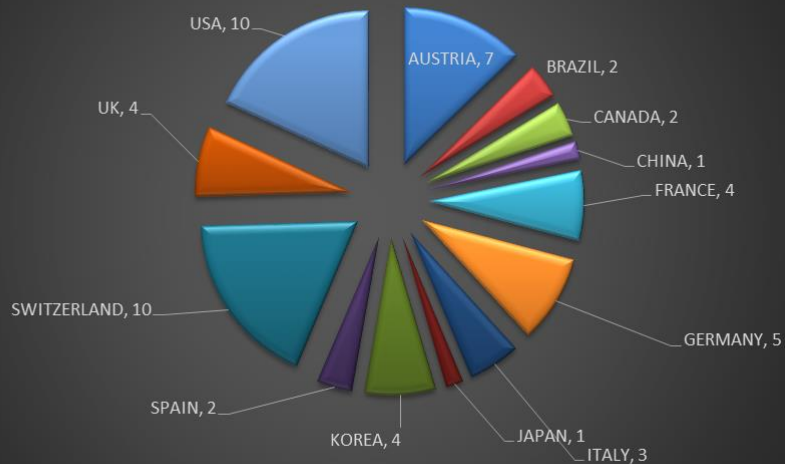
- ⇒ New Accelerators design and upgrade require ~1000 or more power converters
- ⇒ MTBF  $>10^5$  or  $10^6$  hour

## “Reliability & Components Ageing”

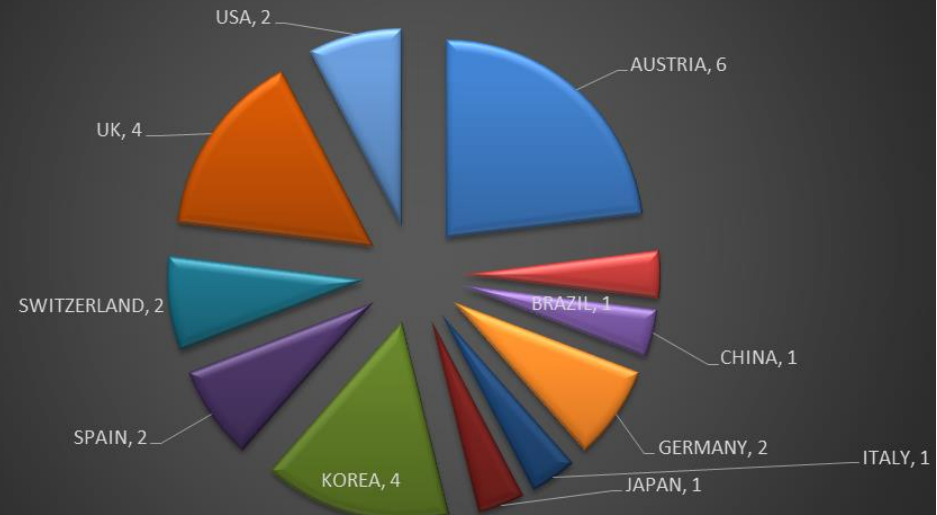
# POCPA7 - Numbers

- ⇒ **55** Specialists (7 “internal”), 26 “1<sup>st</sup>-timers” (47%)
- ⇒ **25** Facilities worldwide
- ⇒ **13** Countries from 3 Continents

POCPA7 Participants (25 Facilities, 13 Countries)

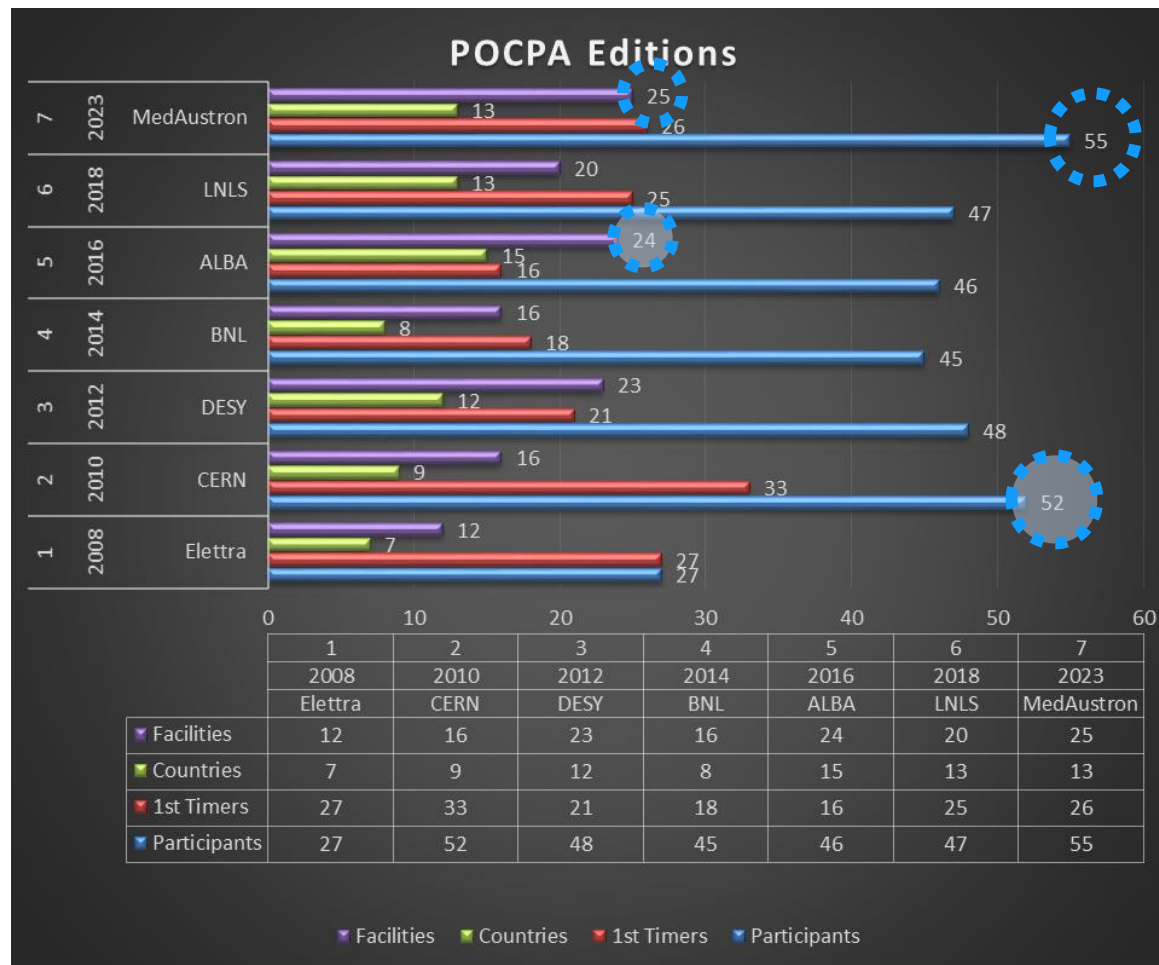


POCPA7 First Time Participants: 26 (on 55: 47%)



# POCPA7 – Records

- ⇒ **55** Specialists (Previous: 52, POCPA2 at CERN)
- ⇒ **25** Facilities worldwide (Previous: 24, POCPA5 at ALBA)





# Where we left off...

Mon 24	Bus from hotels	12:00
	Arrival to CNPEM - Registration	8:00 - 12:00
	Lunch	13:00 - 14:00
	Session 1	14:00 - 16:00
	coffe break	16:00 - 16:20
	Session 2	16:20 - 18:00
	Bus to Hotels	18:10
Tue 25	Bus to Restaurant	19:10
	Informal Dinner	19:30 - 22:30
	Bus to hotels	22:45
	Bus from hotels	08:30
Tue 25	Session 3	09:00 - 11:00
	coffe break	11:00 - 11:20
	Session 4	11:20 - 13:00
	Lunch	13:00 - 14:00
	Visit to UVX and Sirius	14:00 - 18:00
	Bus to Hotels	18:10
	Bus to restaurant	19:15
Wed 26	Gala Dinner	19:45 - 22:45
	Bus to hotels	23:00
	Bus from hotels	08:30
Wed 26	Session 5	09:00 - 11:00
	coffe break	11:00 - 11:20
	Session 6 & Conclusions	11:20 - 13:00
	Lunch	13:00 - 14:00
	Departure from CNPEM	14:30
	Flight to Foz do Iguaçu	19:20

**6TH POCPA WORKSHOP**  
POWER CONVERTERS FOR PARTICLE ACCELERATORS  
September 24<sup>th</sup> - 26<sup>th</sup> 2023 | UNL/CNPEM / Campinas - Brazil

**TIMETABLE**

Day	Time	Session	Chairman	Title	
Mon 24	08:30	Registration			
	12:00	Lunch			
	14:00	Session 1	A. M. M. de Oliveira	Advances in Particle Accelerator Technology	
	16:00	Session 2	A. M. M. de Oliveira	Advances in Particle Accelerator Technology	
	18:10	Bus to Hotels			
	19:10	Bus to Restaurant			
	19:30	Informal Dinner			
	22:45	Bus to hotels			
	Tue 25	08:30	Bus from hotels		
		09:00	Session 3	A. M. M. de Oliveira	Advances in Particle Accelerator Technology
11:00		coffe break			
11:20		Session 4	A. M. M. de Oliveira	Advances in Particle Accelerator Technology	
13:00		Lunch			
14:00		Visit to UVX and Sirius			
18:10		Bus to Hotels			
19:15		Bus to restaurant			
19:45		Gala Dinner			
23:00		Bus to hotels			

**Thank you MedAustron!**  
**Enjoy POCPA7!**

POCPA7 - Introduction, May 31, 2023, MedAustron, Wiener Neustadt, AT

Roberto Visintini

Thank you!



Elettra  
Sincrotrone  
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[www.elettra.eu](http://www.elettra.eu)