

Elektrotechnisches Institut

Institutskolloquium

Speakers:

Ing. Valérie Montabonnet

Dr.-Ing. Davide Aguglia

**CERN – Power Converters
Group**

**Wednesday
3rd April 2024 3:30 pm**

Room 2/N112
Central Auditorium
Reichenhainer Str. 70

Moderation:
Prof. Dr. Thomas Basler

Power Electronics for very high Energy Accelerators – Today's and Tomorrow's Challenges

What is the nature of the universe, what is made of? These are fundamental questions that CERN, as worldwide known laboratory, is addressing.

Scientists from around the world come to CERN to build and use unique complex accelerators in pursuit of answers to these fundamental inquiries .

These complex accelerators, at the cutting edge of technology, are driven by thousands of power electronics systems, from few to several MW.

Why is power electronics so important in such world? How are we dealing with the accelerator demanding requirements? What are our next challenges dreaming for more powerful machines?

These questions will be answered.

Valérie Montabonnet is leader of the Electrical Power Converter Group at CERN

Davide Aguglia is deputy group leader of the Electrical Power Converter Group at CERN