

QuAmpere

Mon, 2016-07-11 10:20 - [Minna Günes](#) **Full Name:** Quantum ampere: Realisation of the new SI ampere

Coordinator: Hansjörg Scherer

Location

Physikalisch-Technische Bundesanstalt Bundesallee 100
Braunschweig Germany

52° 17' 29.0652" N, 10° 27' 49.338" E

See map: [Google Maps](#)

Website:

https://www.ptb.de/emrp/qu_ampere.html

Running time: 2012-05-01 - 2015-04-30

QuAmpere aims at further developing the best existing concepts of SET pumps (single-electron transport devices needed to control the number of electrons flowing in a unit time interval) and to combine them with single-electron detectors to create highly accurate quantum current sources, to be used as current standards in the future. Furthermore, the necessary associated instrumentation is developed. The key objective of the project is the implementation of capabilities and methodologies for the realisation and dissemination of the new SI base unit definition for the ampere.

- [Quantum Engineering](#)
- [Quantum Metrology, Sensing and Imaging](#)
- [Other](#)
- [Other](#)

Source URL: <http://qurope.eu/db/projects/quampere>