

Novel approaches to scaling trapped-ion quantum computing

APER0
after the
colloquium



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ETHZ

Monday
February 5th
15:00
Room CE 2

Trapped-ions are among the most successful approaches to realizing quantum computers, however it remains a major challenge to scale these systems up towards interconnected arrays of hundreds of ions. I will describe how we are approaching these challenges using ion traps with integrated photonics, as well as moving from radio-frequency trapping to micro-fabricated Penning traps, which looks favourable from the perspective of realizing flexibly reconfigurable 2-dimensional arrays.

or on zoom :

<https://epfl.zoom.us/j/64905394203>

Host: Jean-Philippe Brantut