

Erik Bakkers



Presentation title

Majorana Networks from the Bottom-Up.

After obtaining his PhD in nanoelectrochemistry at the University of Utrecht, Erik started working at Philips Research in Eindhoven in 2000.

He started his own research group, and the team focused on nanowires - lines of material with a width of several tens of nanometers- an area he continues to research, looking at integration into semiconductors in particular. In 2010, his growing interest in fundamental research resulted in Erik joining the Technical University of Eindhoven as well as Delft Technical University as part-time professor in the Quantum Transport group.

His current interest is in Quantum Materials, to detect and manipulate Majorana states, and in Hexagonal Silicon, to demonstrate and exploit the predicted direct band gap in this material.

He has received the Technical Review award from MIT, VICI grant, ERC CoG, and the Science AAAS Newcomb Cleveland Prize.