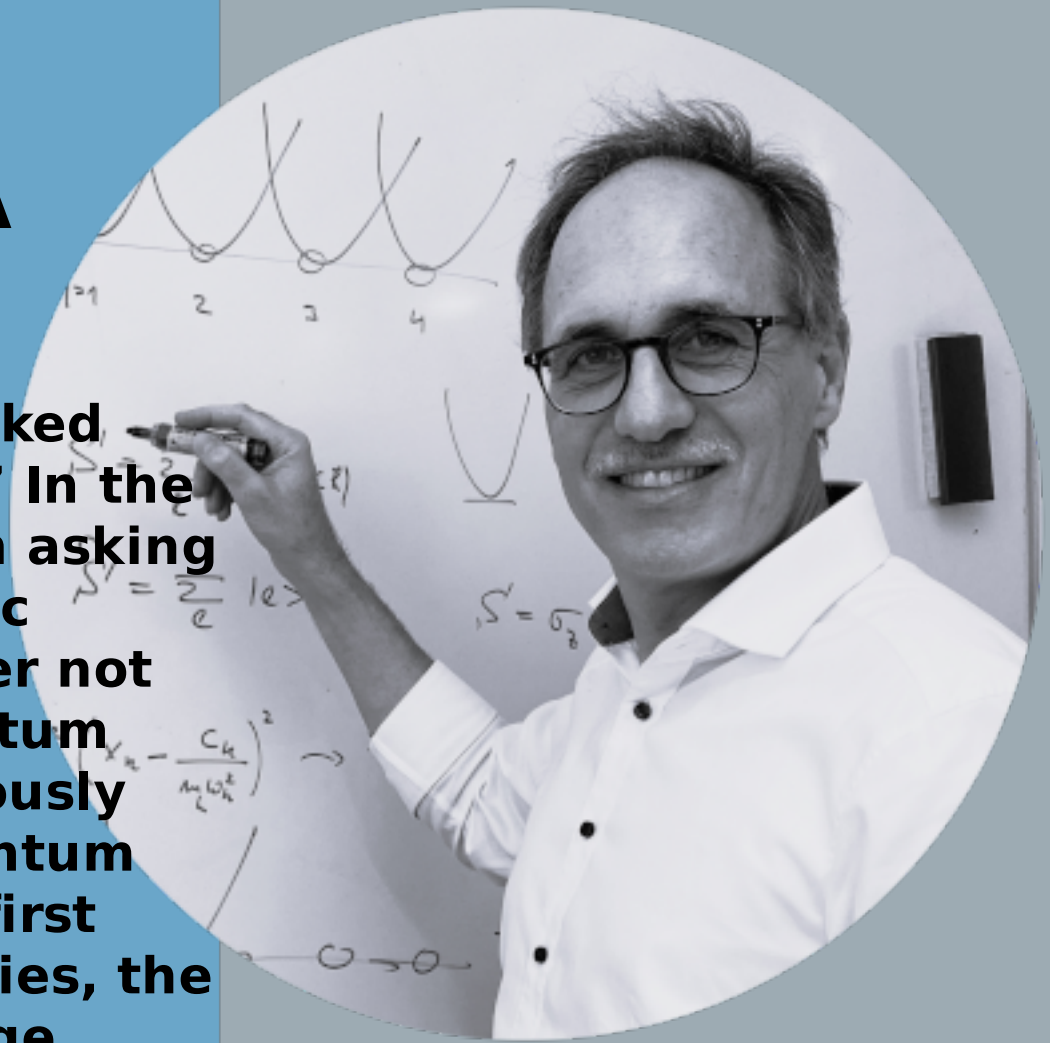


Science Colloquia

Sala Conferenze, DFA
13/11/2024 h 14:30

The mathematician Marc Kac once asked, "Can one hear the shape of a drum?" In the quantum era of the 21st century I am asking "Can one see the tunneling of electric charges?" It turns out that the answer not only touches deep questions of quantum physics but also combines two previously basically distinct fields, namely, quantum optics and mesoscopic physics - the first dealing with light and atoms in cavities, the second dealing with the flow of charge carriers. I will discuss recent experimental and theoretical developments and prospects.



Can we see the quantum tunneling of electric charges?

Joachim Ankerhold
Ulm University
Germany



FISICA E ASTRONOMIA
"ETTORE MAJORANA"



$k=3$

max =
0.20

$k=6$

max =
0.63