



The 2016 John S Bell Lecture

Prof. Ronald Hanson (QuTech, Delft University of Technology)

The rise of the quantum machines:
Bell's test of Einstein's "spooky action"

Friday 04 November 2016—13:00–14:00

Free entrance

Bell Lecture Theatre

IRCEP Building

School of Mathematics and Physics

About the Lecturer: Ronald Hanson (Groningen, 1976) finished his PhD in Physics at TU Delft on Electron spins in semiconductor quantum dots. After his PhD he spent a year in Japan on a program run by the dutch government to "educate and train future leaders of Dutch society" on interactions with Japan.

After being a post doctoral researcher in both Delft and at the University of California in Santa Barbara, Ronald was appointed 'Antoni van Leeuwenhoek Professor' at the TU Delft in 2012.

His expertise lies in quantum optics and quantum information science, controlling single quantum objects in solids, single electrons in quantum dots and single spins and single photons using diamond NV centers.

His work on Bell's Theorem was recognised by *Physics World* as one of the top 10 breakthroughs of 2015. Ronald was awarded an ERC Starting Grant (2012), a Dutch Vici Grant (2016) and the 2016 Huibregtsen Prize for his research into safe surfing on the quantum internet.

