



Preliminary program FYSICA 2022

Friday, April 22

UTwente, De Waaier

www.fysica.nl

Big data & deep learning: new opportunities for physics & society

We are very honoured to host the following plenary speakers:

- **Peter Bauer** (European Centre for Medium-Range Weather Forecasts, Reading, UK)
- **Physica Prize winner: Ronald Hanson** (QuTech, TU Delft)

Program

09.30 Registration desk open, coffee & tea, FYSICA-market

10.15 Welcome by Diederik Jekel, Chair NNV

10.20 Laudatio Physica Prize winner

10.25 Plenary Physica Lecture: Ronald Hanson – *Towards a quantum internet: status, progress and challenges*

11.00 Award Ceremonies 'Natuurkundedocent van het Jaar 2022', 'NTvN award' & 'NNV hbo Jong Talentprijs'

11.15 Coffee/tea break, FYSICA-market

11.35 Young Speakers Contest: 3 finalists

12.20 Lunch, FYSICA market and guided tours

* 12.45 – 13.45 Finals SPIN BSc-contest

14.00 Focus Sessions

* Student session: Big data and deep learning

* Education: Sterk verbonden in het onderwijs

* Big Data and wind energy

* Deep learning for health

- * Machine learning and materials
- * Optics and information
- * Diversity in the Dutch science community

16.00 Tea break & FYSICA-market

16.30 Award Ceremonies 'Young Speakers Contest' & 'BSc-contest'

16.45 Plenary Lecture: Peter Bauer – *High-performance computing and big data handling: The biggest challenge for weather and climate prediction*

17.15 Closing of day program

17.30 Dinner

19.00 Evening program: Panel discussion '*Climate forecasts: limits to predictability*' –
In cooperation with Studium Generale.

20.30 Closing of FYSICA 2022

Address FYSICA 2022:

UNIVERSITEIT TWENTE
De Waaier (building nr. 12)
DRIENERLOLAAN 5
7522 NB ENSCHEDE