

# THE PHYSICS COLLOQUIUM

Thursday 13 March 2025, 4:00 p.m.  
Bernoulliborg 5161.0253

## Detecting Dark Matter: Our Universe's Worst-Kept Secret

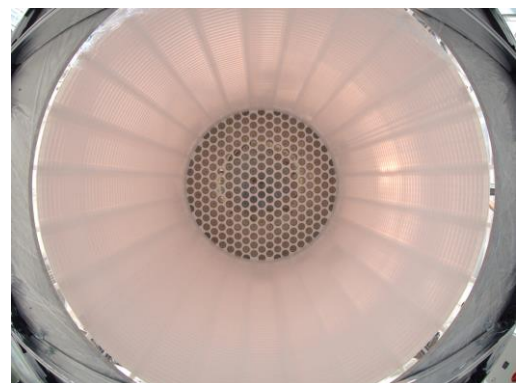
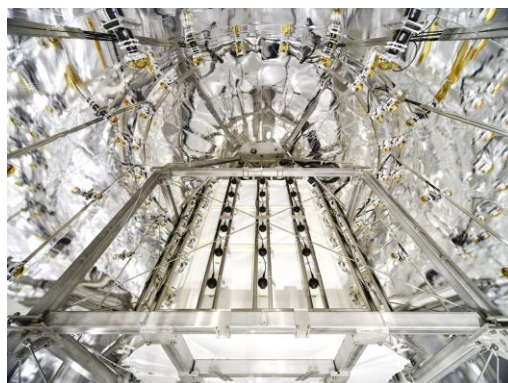
Jelle Aalbers

*Van Swinderen Institute, University of Groningen*

Dark matter is an unknown substance that makes up about 80% of the matter in our universe.

In this colloquium, Jelle Aalbers will discuss the evidence for the existence of dark matter and the crucial role of dark matter in the evolution of our universe.

Next, we dive deep underground below the Italian Apennines for the latest results from XENONnT, one of humanity's most sensitive detectors designed to detect extremely rare signals, such as interactions between dark and ordinary matter.



*Join us for coffee starting 3:30 p.m. Refreshments will be served after the lecture.*

For more information contact the host: Anastasia Borschevsky [a.borschevsky@rug.nl]  
Website: <http://www.rug.nl/research/vsi/colloquia/>