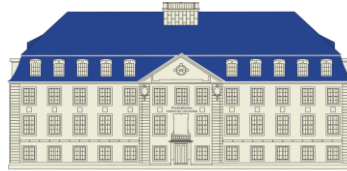




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## COLLOQUIUM „OPTICS AND CONDENSED MATTER“

***Michiel Wouters***

*University of Antwerp, Belgium*

### **Nonequilibrium Bose-Einstein condensation in photonic systems**

Spontaneous symmetry breaking and the formation of long range spatial coherence are the hallmarks of Bose-Einstein condensation (BEC). Since these features are not restricted to thermal equilibrium, they not only occur in superfluid Helium and ultracold atomic gases, but also in optical systems such as spatially extended lasers, microcavity polaritons and in dye filled microcavities.

In this talk, I will give an overview of nonequilibrium BEC in photonic systems and discuss the recent experimental observation of the Goldstone mode and Kardar-Parisi-Zhang scaling.

**November 14th, starting with discussion at 17:00 h, talk at 17:15 h, live IAP lecture hall or via Zoom**

<https://uni-bonn.zoom.us/j/98441612025?pwd=a01SSjlkY1Q3SDFhL09JQk1qc1V6dz09>

Meeting-ID: 984 4161 2025

Kenncode: 294164