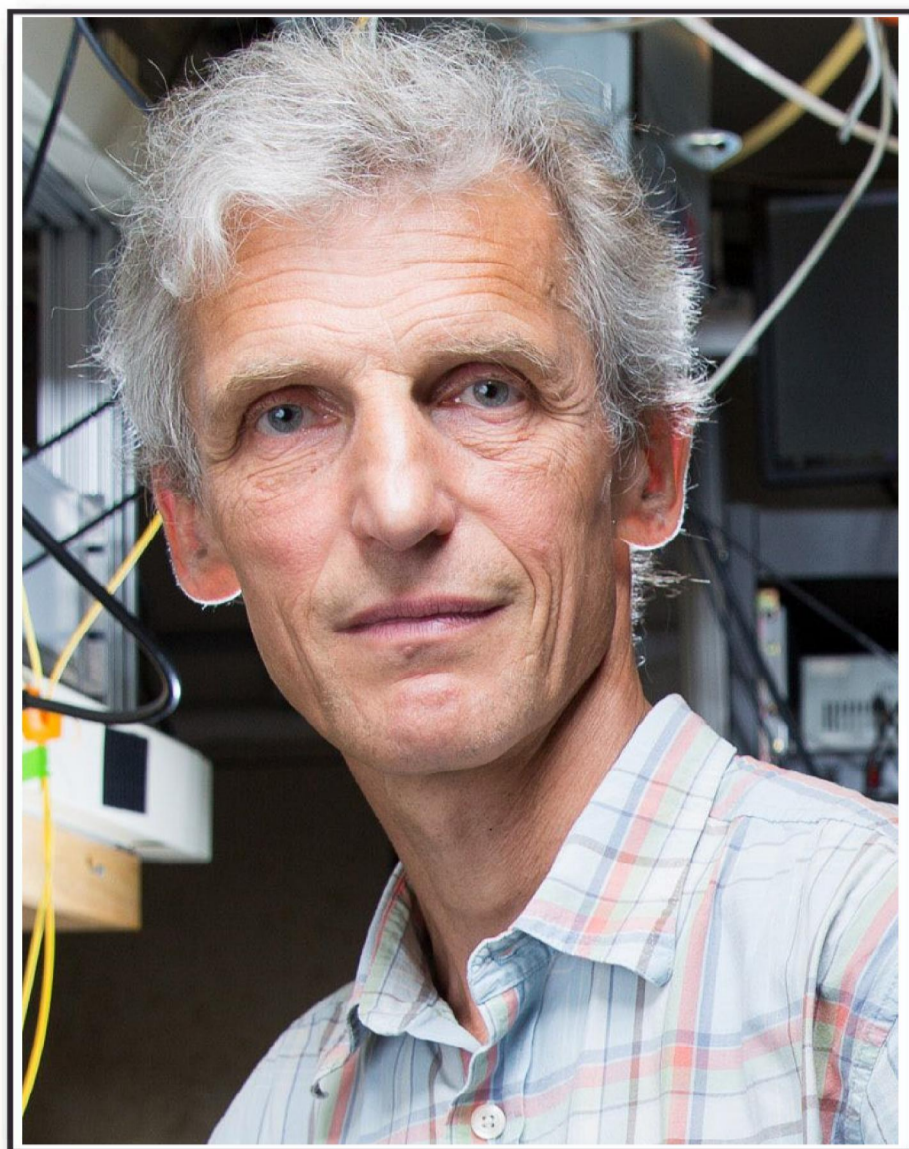


EMMEΦ 't Hooft Lezing



Physics Utrecht

EMMEΦ



Prof. Wolfgang Ketterle

Wednesday, 27 Sep 2017

16.00 - 17.30

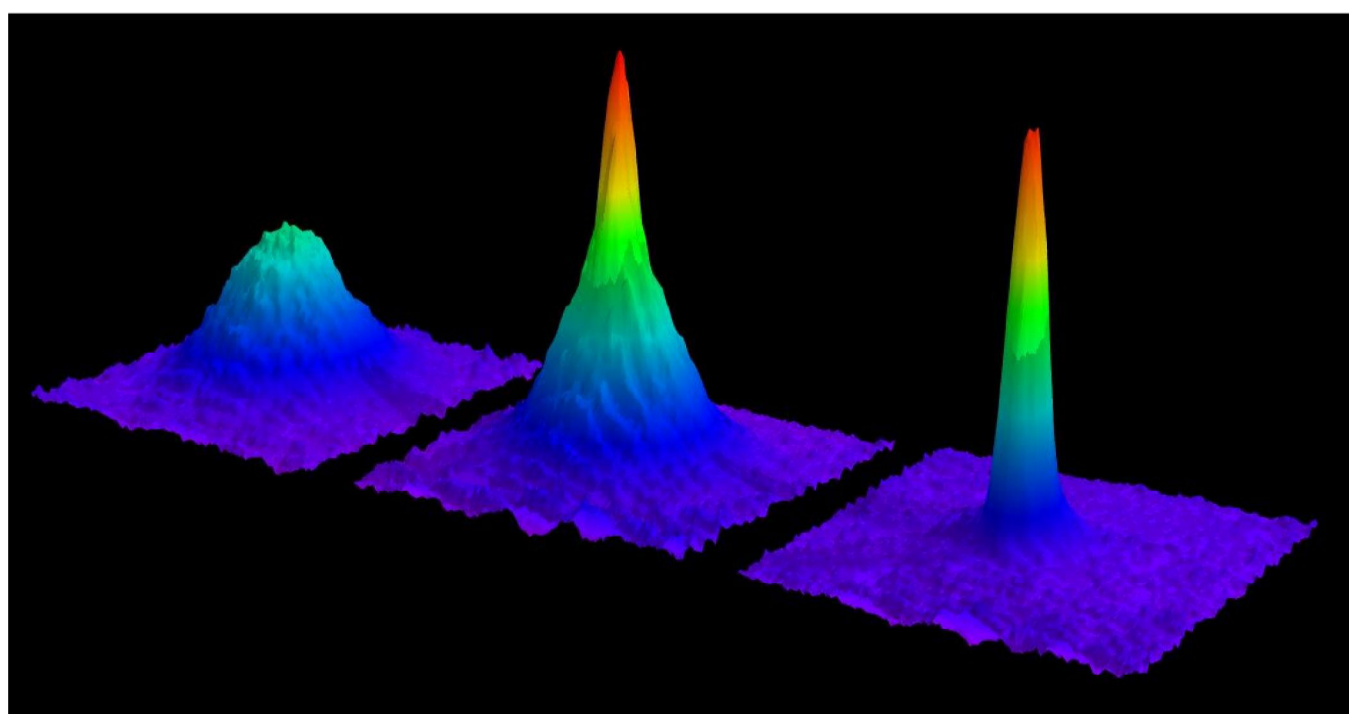
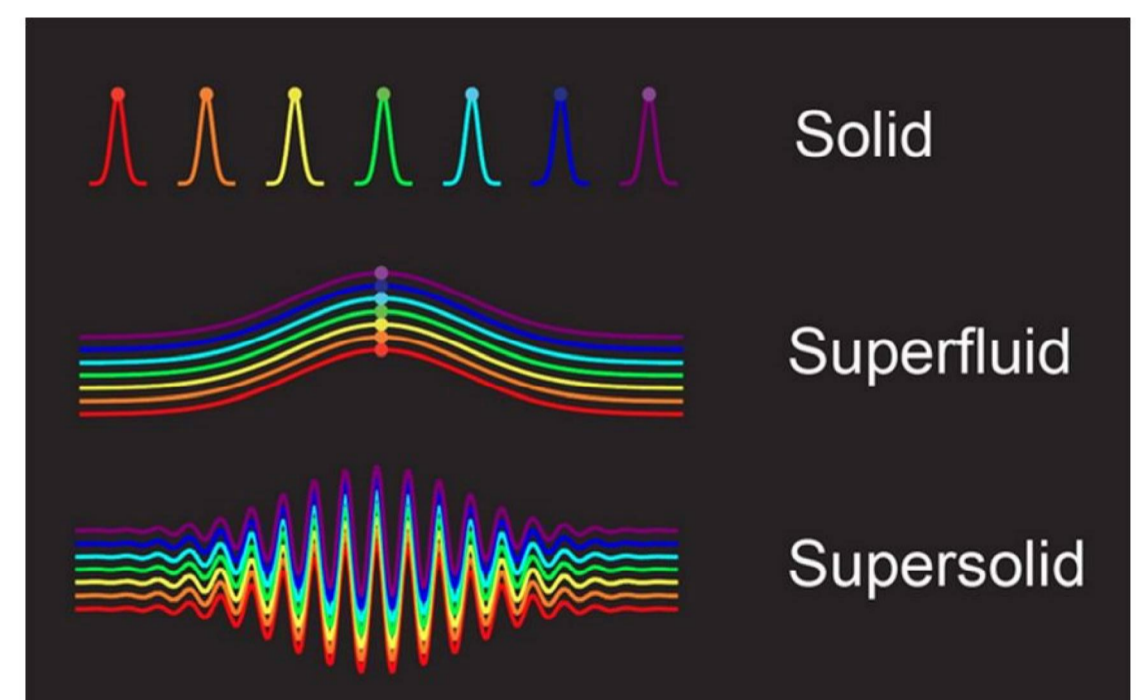
Theatron, Educatorium

Leuvenlaan 19, Utrecht

New Forms of Matter Near Absolute Zero Temperature

Abstract

Why do physicists freeze matter to extremely low temperatures? Why is it worthwhile to cool to temperatures which are a billion times lower than that of interstellar space? In this talk, I will discuss new forms of matter, which only exist at extremely low temperatures. With the help of laser beams, gases of ultracold atoms can be transformed into solids and insulators, and recently into a supersolid which is gaseous, solid and liquid at the same time.



16.00 Opening

16.30 Colloquium

17.30 Reception

The Department of Physics covers a broad range of research areas, which can be unified under the umbrella of a "Center for Extreme Matter and Emergent Phenomena". This new center strengthens the areas of joint interest and makes the existing coherence more apparent.