

Sommerfeld Theory Colloquium

Wednesday, 20th April 2005
at 11.15 h
room 349, Theresienstr. 37 / III

Prof. Wilhelm Zwerger
Technische Universität München

From Fermions to Bosons: Many-Body Physics in Dilute Gases

The crossover from a dilute, superfluid Fermi gas with weakly bound Cooper pairs to a Bose-Einstein condensate of strongly bound, diatomic molecules is discussed qualitatively. Its relevance both for condensed matter and atomic physics is outlined and an exact solution of this longstanding problem is given in the particular case of one dimension.