

Condensed Matter Physics Seminar

Can Bose-Einstein condensation occur
via a first-order transition?

Prof. Pawel Jakubczyk

Faculty of Physics, University of Warsaw

April 12th Fri., 10:00 - 11:00

Seminar room 110, Sakura, NIMS

I will discuss the finite-temperature phase diagram of the mean-field Bose mixture. I will point out the possibility of realising Bose-Einstein condensation as a first-order phase transition and the occurrence of a van der Waals type transition within the non-condensed region of the phase diagram. The latter transition may be realized even in presence of purely repulsive microscopic interactions.

Zoom : <https://us06web.zoom.us/j/81483289716?pwd=kuxF5QVv2khBaCrEVAHqBmqayQyC7f.1>

meeting ID: 814 8328 9716

passcode: 974251

Contact: Hiroyuki Yamase (yamase.hiroyuki@nims.go.jp)

Takafumi Kita (kita@phys.sci.hokudai.ac.jp)

Co-sponsored by
the Physical Society of Japan Hokkaido Branch Lecture Series