

Bose–Einstein condensation of atomic gases

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The early experiments on Bose–Einstein condensation in dilute atomic gases accomplished three long-standing goals. First, cooling of neutral atoms into their motional ground state, thus subjecting them to ultimate control, limited only by Heisenberg's uncertainty relation. Second, creation of a coherent sample of atoms, in which all occupy the same quantum state, and the realization of atom lasers — devices that output coherent matter waves. And third, creation of a gaseous quantum fluid, with properties that are different from the quantum liquids helium-3 and helium-4. The field of Bose–Einstein condensation of atomic gases has continued to progress rapidly, driven by the combination of new experimental techniques and theoretical advances. The family of quantum-degenerate gases has grown, and now includes metastable and fermionic atoms. Condensates have become an ultralow-temperature laboratory for atom optics, collisional physics and many-body physics, encompassing phonons, superfluidity, quantized vortices, Josephson junctions and quantum phase transitions.

The lure of lower temperatures has attracted physicists for much of the past century, and with each advance towards absolute zero, new and rich physics has emerged. Laypeople may wonder why freezing cold is not cold enough; but imagine how many aspects of nature we would miss if we lived on the surface of the Sun. Without inventing refrigerators, we would know only gaseous matter and never observe liquids or solids. Cooling to normal earthy temperatures reveals these dramatically different states of matter, but this is only the beginning: many more states appear with further cooling. The approach into the kelvin range was rewarded with the discovery of superconductivity in 1911 and of superfluidity in ^4He in 1938. Cooling into the millikelvin regime revealed superfluidity of ^3He in 1972. The advent of laser cooling in the 1980s opened up a new approach to ultralow-temperature physics. Microkelvin samples of dilute atom clouds were generated and used for precision measurements and studies of ultracold collisions. NanoKelvin temperatures were necessary to explore quantum-degenerate gases, such as the Bose–Einstein condensates (BECs) first realized in 1995. Each of these achievements in cooling has been a significant advance, and recognized with a Nobel prize.

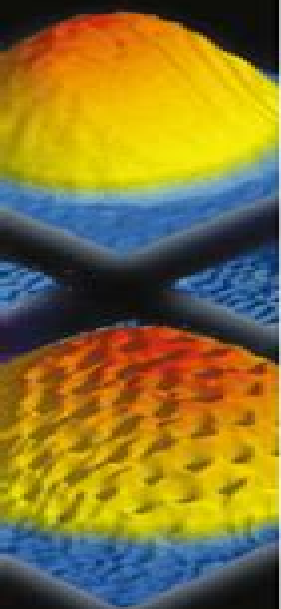
The essential techniques for making quantum-degenerate gases are cooling techniques, because at high temperatures a dilute gas of atoms behaves classically. As long as the atoms' de Broglie wavelength $\lambda_{\text{dB}} = h/(2Mk_B T)^{1/2}$ is small compared to the spacing between atoms, one can describe their motion with classical trajectories. (λ_{dB} is the position uncertainty associated with the thermal momentum distribution, and increases with decreasing temperature T and atomic mass M .) Quantum degeneracy begins when λ_{dB} and the interatomic distance become comparable. The atomic wave packets overlap, and the gas starts to become a 'quantum soup' of indistinguishable particles. If the atoms are bosons, a condensate — a cloud of atoms all occupying the same quantum state — appears at a precise temperature (which, for an ideal gas, is related to the peak atomic density

n by $n\lambda_{\text{dB}}^3 = 2.612$). If the atoms are fermions (see Box 1), cooling gradually brings the gas closer to being a 'Fermi sea' in which exactly one atom occupies each low-energy state.

Creating a BEC or a Fermi sea is thus simple in principle — make a gas extremely cold. In most cases, however, quantum degeneracy would simply be pre-empted by the more familiar transitions to a liquid or solid. This more conventional condensation can be avoided only at extremely low densities, about one-hundred-thousandth the density of normal air, so that the formation time of molecules or clusters by three-body collisions (which is proportional to the square of the inverse density) is stretched to seconds or minutes. Because the rate of binary elastic collisions drops only proportionally to the density, these collisions are much more frequent and let the gas equilibrate within about 10 ms, so that degeneracy can be achieved in an effectively metastable gas phase. However, such ultralow density lowers the temperature requirement for quantum degeneracy into the nanokelvin range.

Sub-microkelvin temperatures are reached by combining two procedures. Laser cooling precools the gas so that it can be confined in a magnetic trap¹. In the second stage — forced evaporative cooling² — the trap depth is reduced, allowing the most energetic atoms to escape while the remaining atoms rethermalize at steadily lower temperatures (see ref. 3 for more details). Most experiments with BECs reach quantum degeneracy between 500 nK and 2 μK , at densities between 10^{14} and 10^{17} cm^{-3} . The largest condensates are of 30 million atoms in Na, and a billion in H; the smallest are just a few hundred atoms. Depending on the magnetic trap, the shape of the condensate is either approximately round, with a diameter of 10–50 μm , or cigar-shaped with a diameter about 15 μm and length 300 μm . The full cooling cycle that produces a condensate may take from a few seconds to as long as several minutes.

This review summarizes the recent progress in and beyond Bose–Einstein condensation. Since 1995 this field has grown explosively, drawing researchers from the communities of atomic physics, quantum optics and condensed matter physics. The trapped ultracold vapour has emerged



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