

## **Bose-Einstein Condensation: Shock Waves and Vortices in a Superfluid Gas**

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At temperatures below 100 nanokelvin, we induce a dilute gas of atomic Rubidium to condense into a gaseous superfluid called a Bose-Einstein condensate. I will discuss the necessary experimental steps necessary to realize such a state, and lead the audience on a brief tour through some of the more exotic fluid dynamical properties of this strange material.