

**Consciousness and the Collapse of the Wave Function**

**David Chalmers**
New York University

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4:00 p.m.

Two of the hardest problems in contemporary science are the problem of quantum measurement and the problem of consciousness. There is a long history of trying to link them by arguing that consciousness plays a role in quantum measurement through the collapse of the wave function. This idea has never been made rigorous. I will explore ways of making it rigorous by combining it with mathematical theories of the brain-consciousness relation and of quantum collapse dynamics. I will also discuss possible empirical tests and philosophical consequences.

**Wilson Hall, One West**