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### Observation And Quantum Objectivity University

Observation and Quantum Objectivity Richard Healey Philosophy Department, University of Arizona Tucson, AZ 85721-0027, USA rhealey@email.arizona.edu Acknowledgments I thank Jos Uç nk for pressing the objection addressed in Section 6. This pa-per has bene-ted from constructive criticisms of several referees for this journal:

### Observation and Quantum Objectivity - PhilSci-Archive

The prominence of notions of observation or measurement in standard formu- lations of quantum theory raises concerns about the objectivity of descriptions in that theory. If the Born Rule is understood to yield probabilities just for results of observations/measurements then one can question the objectivity of these results.

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A quantum experiment suggests there's no such thing as objective reality. Physicists have long suspected that quantum mechanics allows two observers to experience different, conflicting realities.

### A quantum experiment suggests there's no such thing as ...

Scientifically, there has been little progress on this until very recently, when Časlav Brukner at the University of Vienna showed that, under certain assumptions, Wigner's idea can be used to...

### Objective Reality Doesn't Exist, Quantum Experiment Shows ...

Read more: Quantum physics: our study suggests objective reality doesn't exist Our experiment goes like this: the friends enter their labs and measure their particles. Some time later, Alice and ...

### New quantum paradox throws the foundations of observed ...

Quantum mechanics famously allows particles to occupy many locations at once—a so-called superposition—but the friend's observation "collapses" the particle to just one spot.

### Quantum paradox points to shaky foundations of reality ...

The paradox of Wigners friend challenges the objectivity of quantum the-ory. A pragmatist interpretation can meet this challenge by judicious appeal to decoherence. Quantum theory provides situated agents with resources for predicting and explaining what happens in the physical world not conscious observations of it.

### CiteSeerX — Observation and Quantum Objectivity

Nearly 60 years ago, Nobel Prize-winning physicist Eugene Wigner captured one of the many oddities of quantum mechanics in a thought experiment. He imagined a friend of his, sealed in a lab, measuring a particle such as an atom while Wigner stood outside. Quantum mechanics famously allows particles to occupy many locations at once—a so-called superposition—but the friend's observation ...

### Paradox puts objectivity on shaky footing | Science

Scientifically, there has been little progress on this until very recently, when Časlav Brukner at the University of Vienna showed that, under certain assumptions, Wigner's idea can be used to...

### Quantum physics: Our study suggests objective reality ...

Scientifically, there has been little progress on this until very recently, when Časlav Brukner at the University of Vienna showed that, under certain assumptions, Wigner's idea can be used to formally prove that measurements in quantum mechanics are subjective to observers.

### New Quantum Physics Experiment Suggests Objective Reality ...

Scientifically, there has been little progress on this until very recently, when Časlav Brukner at the University of Vienna showed that, under certain assumptions, Wigner's idea can be used to...

### Objective Reality May Not Exist, Quantum Experiment ...

Scientifically, there has been little progress on this until very recently, when Časlav Brukner at the University of Vienna showed that, under certain assumptions, Wigner's idea can be used to...

### Quantum physics: our study suggests objective reality ...

Scientifically, there has been little progress on this until very recently, when Časlav Brukner at the University of Vienna showed that, under certain assumptions, Wigner's idea can be used to...

### Why a new quantum experiment raises deep philosophical ...

Objectivity means many things. Some philosophers speak of an objective reality behind perceptible things, as that which in some sense causes appearances. They hold that the objective lies beyond human knowledge, beyond all experience but is responsible for it.

### Objectivity in Quantum Mechanics | SpringerLink

The claim is made that quantum phenomena have no definite values until they are observed, with the implication that the act of observation creates those values. The further implication argued by subjectivists is that objective reality is an illusion, and that "consciousness is primary."

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