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Variance for weak measurement PRASHANNA SIMKHADA, JEAN-FRANCOIS S. VAN HUELE, Brigham Young Univ - Provo — Weak value is an important quantum tool, as illustrated in weak measurements; but what is the interpretation of weak value? We define several possible second moments for the weak value in search of a useful weak variance. We compare the properties of these moments when applied to spin measurements, and extrapolate our results to disembodiment as illustrated in Cheshire cat situations.

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