Interpretations of Quantum Mechanics

Various approaches have been proposed to resolve the measurement problem that are loosely referred to as *interpretations*. An interpretation is generally proposed with the idea that it will agree with the discovery of Schrödinger's equation as well as Born's rule which were to become the two postulates of quantum mechanics. However, Born's rule is an *a posteriori* rule, i.e., it assumes a measurement has already occurred and in a known measurement basis. As we will see, however, there is no "interpretation" that fully addresses the requirements R1.1-R1.4 or R2.1-R2.3 for which measurement occurs.