

Abstract Submitted  
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**The Transactional Interpretation: Still Viable and Still the Best Account of the Born Rule** RUTH KASTNER, University of Maryland College Park — It has been widely supposed that the Transactional Interpretation of Quantum Mechanics (TIQM) was shown to fail based on an objection due to Tim Maudlin in 1996. However, that objection has been decisively refuted, and TIQM has recently been expanded into the relativistic domain. This elaboration of TIQM presents the simplest and most elegant way to explain the Born Rule for the probabilities of measurement outcomes, and indeed the measurement process itself. It therefore answers John Bell's demand for an unambiguous and physically grounded account of the measurement process. TIQM does not need to invoke the consciousness of an observer, a notion not subject to any physically grounded analysis. Rather, it explains measurement by including absorption as a real physical process. This approach naturally lends itself to the relativistic domain, where emission and absorption are fundamental and crucial processes.

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