

Abstract Submitted  
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**Inside and Outside in Four Dimensions** RICHARD KRISKE, University of Minnesota — The author produces a novel proof that Inside and Outside are in fact directions in four space. It has long been suspected that an escape from a three dimensional container would involve an extra dimension. This idea of inside being the opposite of outside can also be used in Quantum Computation to construct an algorithm that can be used to solve boundary value problems, where a trapped object can be released from a closed container through the use of an extra dimension. This algorithm has uses in intractable problems and otherwise insolvable problems involving objects trapped by boundaries.

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