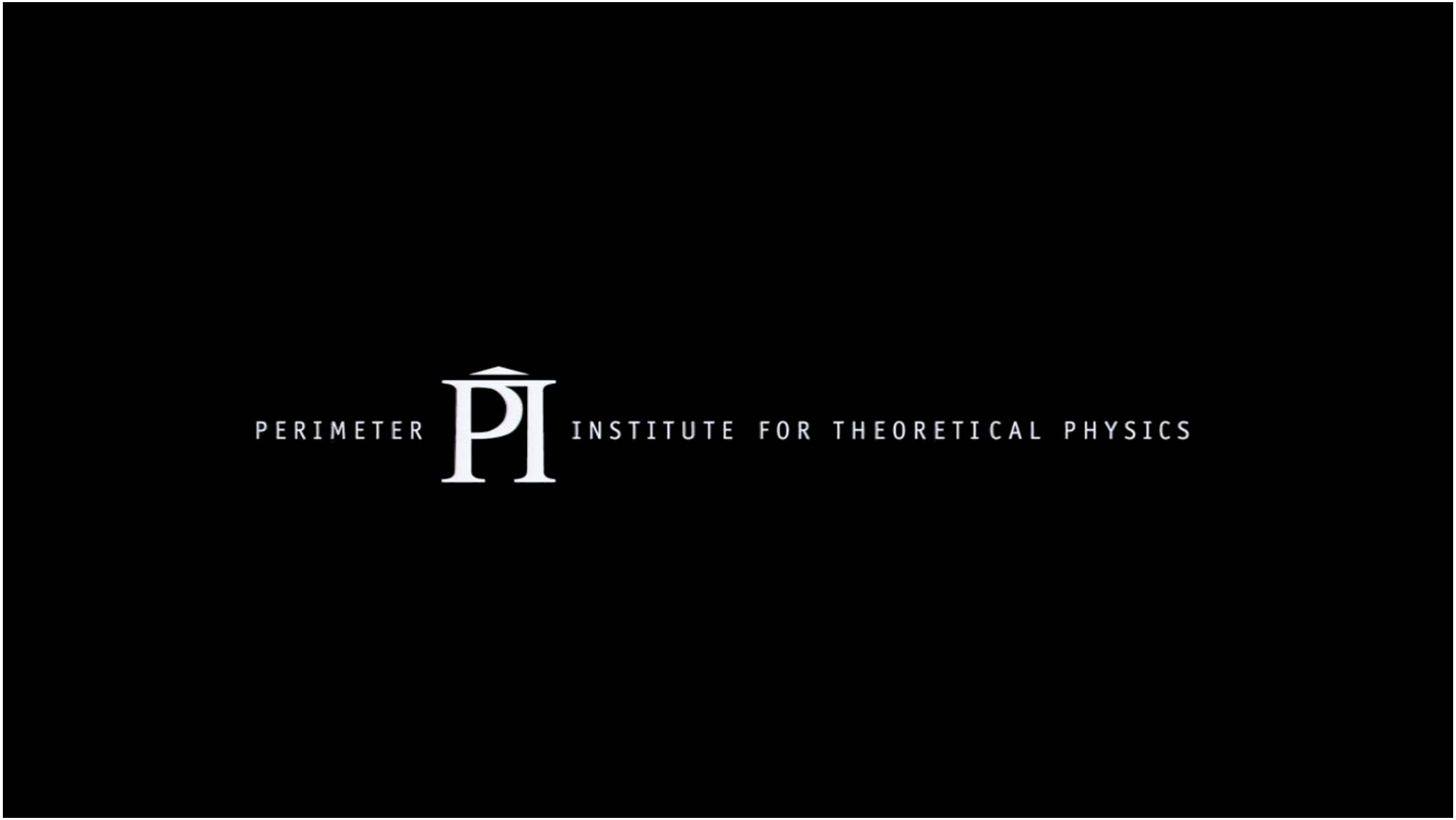
Title: Matrix product operators and topological quantum order

Date: Aug 24, 2015 03:30 PM

URL: http://pirsa.org/15080123

Abstract: Matrix product operators form a natural language for describing topological quantum order. I will discuss how they arise as symmetries in PEPS, how anyon excitations arise as end points on them, and how the virtual indices of the MPO's provide a tensor product structure for the logical qubits in topological quantum computation.


PERIMETER
INSTITUTE FOR THEORETICAL PHYSICS