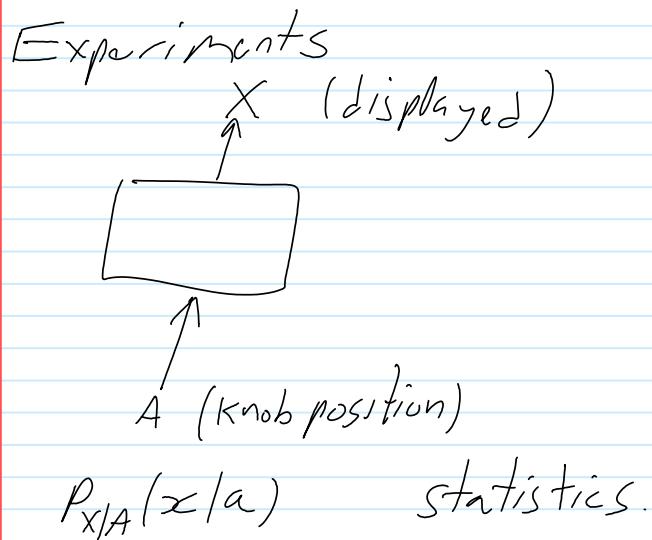


# Renner: Quantum Foundations and Thermodynamics

December-30-13 4:52 AM

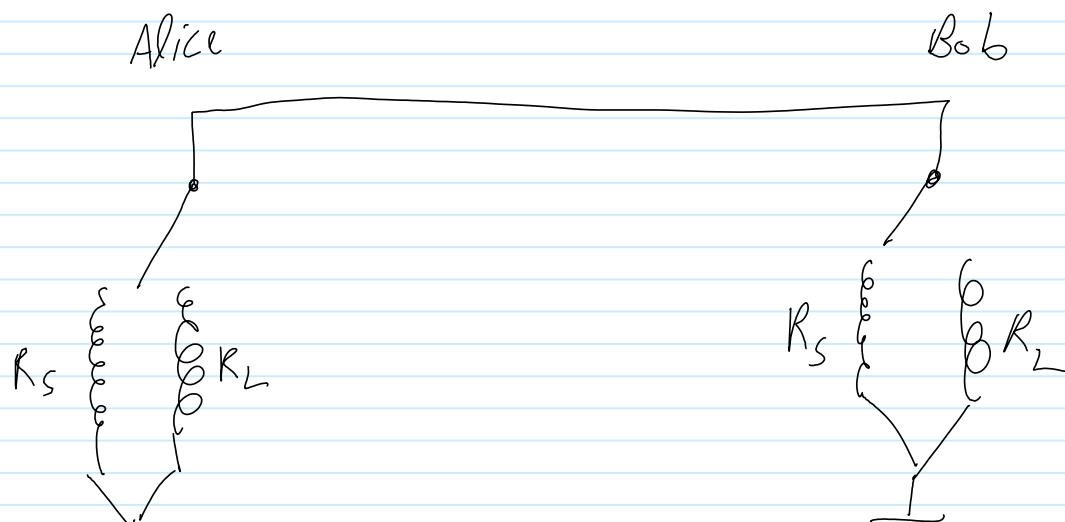
<http://www.itp.phys.ethz.ch/people/renner/>



Theory  
 $\Psi$ -wave function is of  
 $\{\Pi^{x,a}\}$  measurement  
projectors.  
 $\sum \Pi^{x,a} = \text{id}_{\mathcal{H}}$   
 $P_{X/A}(x/a) = \langle \Psi | \Pi^{x,a} | \Psi \rangle$

"Claim": under reasonable hypotheses, all alternative theories are equivalent to QM.

Is the fact that I cannot follow math lectures equivalent to the fact that I cannot follow the lyrics of pop music as it is being played? Both are about not being able to synchronize my inner one with an external one.





Measure fluctuations near Alice & Bob. They depend only on  $\overbrace{\text{resistance}}^{\text{total}}$  ---- fails.