

Title: The Clock and the Quantum - Panel Discussion 1

Date: Oct 02, 2008 02:00 PM

URL: <http://pirsa.org/08100053>

Abstract: Julian Barbour Huw Price Lee Smolin Roderich Tumulka William Unruh

Can Asphraim do  
an experiment that  
would prove to us  
that things really do  
happen?

Or could he alternatively  
prove to us that nothing  
actually happens?

It has been suggested by some that many people who adhere to the many worlds interpretation, ~~and~~ seem to like it so much that would adhere to some form of it even without quantum mechanics. Think of David Lewis or Max Tegmark. In other words, MWI may be more a statement of psychology than physics. React.

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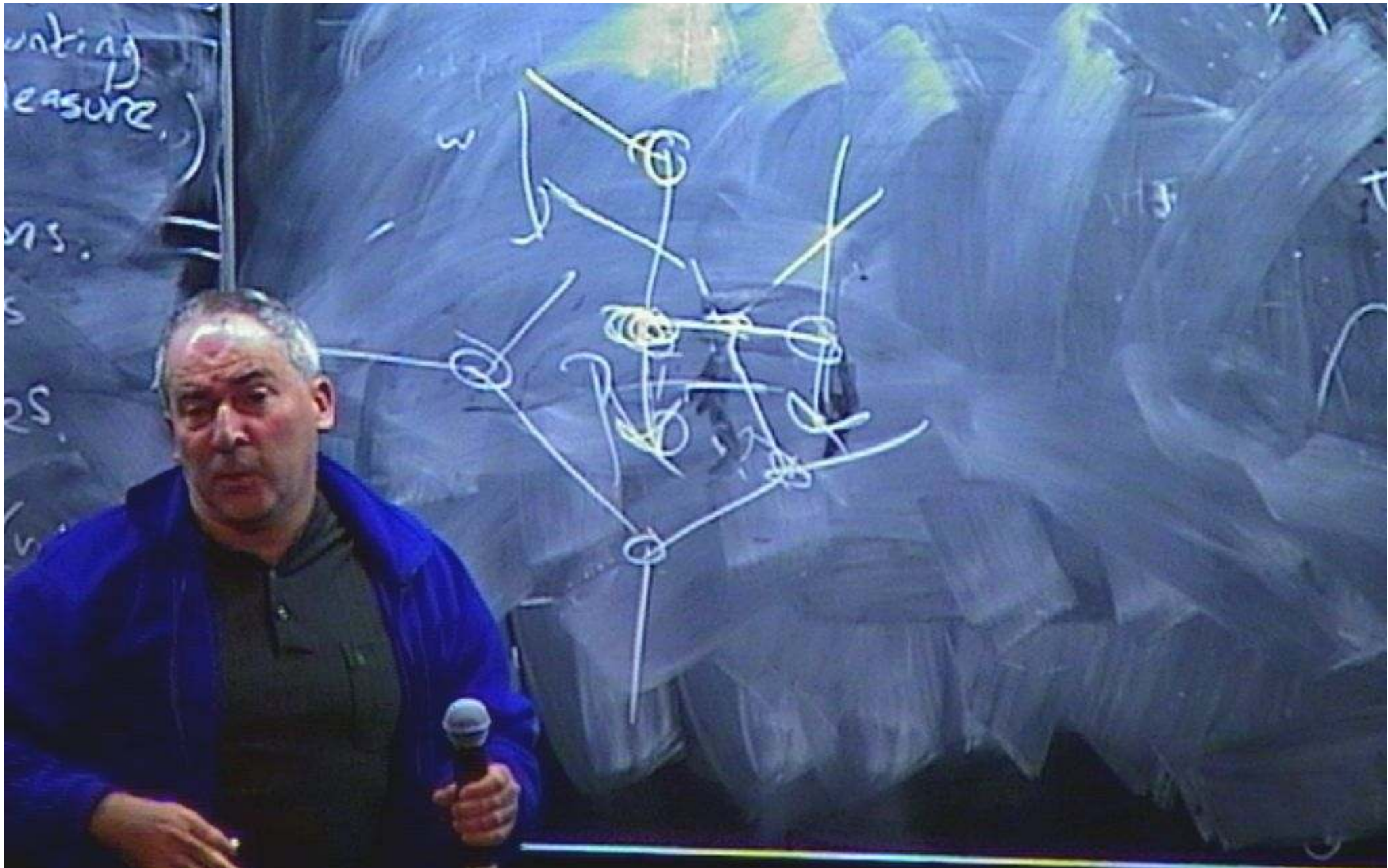
Huw & Wharton & others

Why call it "RETRO-  
causality"? In Huw's  
model all the nodes are  
tied together: left and  
right as well as up and  
down. I.e. it seems he  
imagines a true block univers<sup>e</sup>  
Causes can be taken to go  
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Why is the  
two-state theory  
(interpretation) not  
retrocausal?



Counting  
measure.)

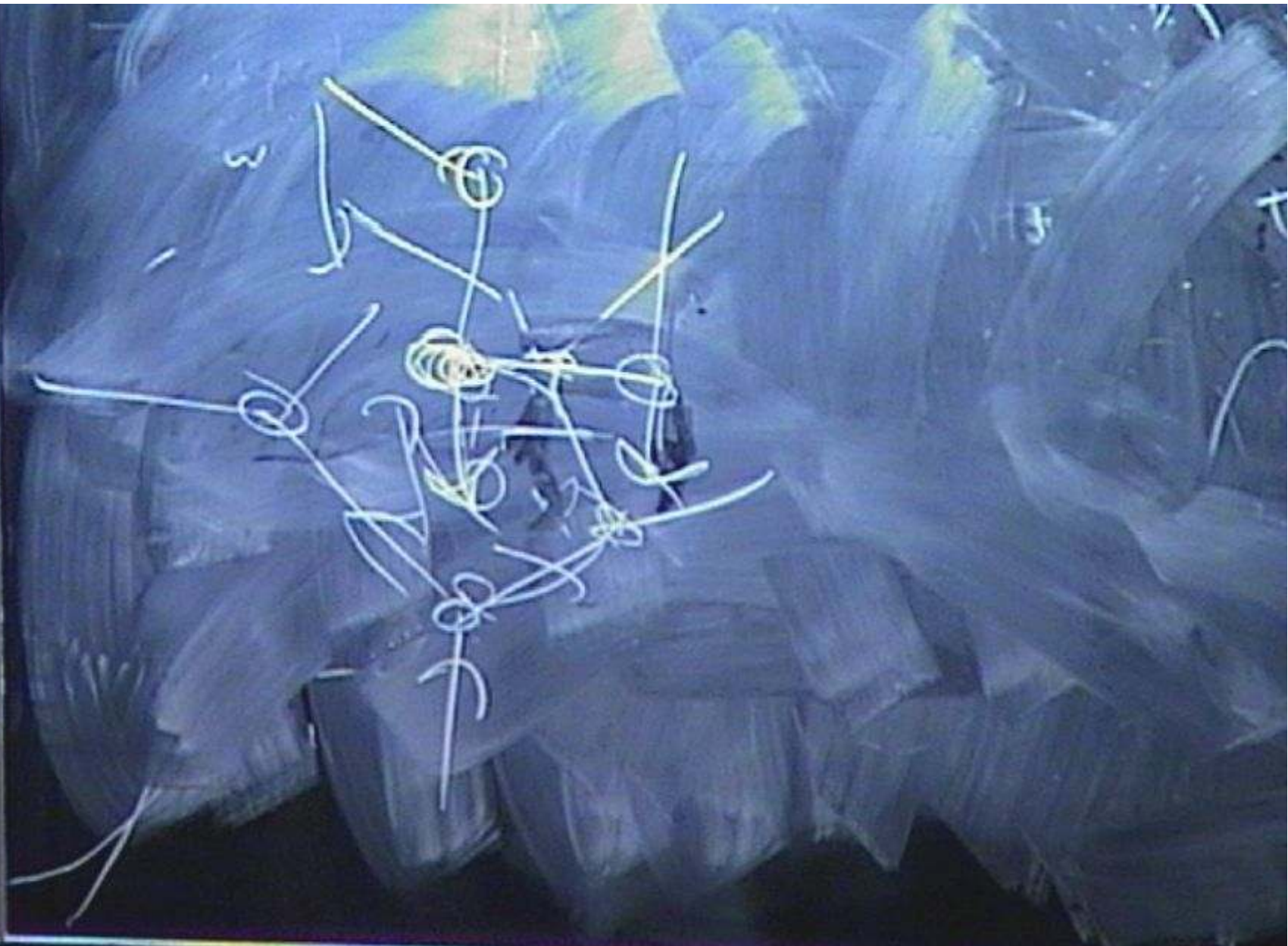
ms.

s

2s

$(N, N+1)$

$(0, 1)$ 's



Suppose for the sake of argument that quantum theory is not fundamental (it is a first order, or equilibrium approximation to...) and quantizing gravity is inappropriate.

- 1) Is there evidence for or against this?
- 2) What implications does this have for the problems discussed at this conference?