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To: [REDACTED] Nowak, Martin

now that my cold medicine has worn off a bit () . =A0 if the flip from spin up to spin down is continuous. . =A0 can the state of the electron along the way be represented =y a number. are the states quantized or continuous. =A0 ie integers or number line. is it necessary for ordinary =ddition to first convert states to zeros and ones and then perform a=standard computation -addition. or can you perform an op=ration on the state itself and then look for a readout of the number. =A0 lets assume in two space . I have a circl=. its cirumference is pi. =C2 if i want to measure it. i need to represent it in ordi=ary numbers .. but why should i , the thing i call=circumference is a state. =C2 on that circumference ie. a clocks.- i draw = unit of arbitrary size and call it " ONE " =A0 measured by the degrees of rotation of my clock hand. two=C2 of the same rotations I call two units. and it is printed out =n my clock. no matter the diameter of the clock ,=C2 it reads two units. . so the number two is the cla=s of all rotations of the same amount two times. . the n=mber is only a representation . can i make the leap to s=y there is a state of the electron that corresponds to the num=er 2 , for a specific observer.. . ? =C2 I loved the way you both weave history into the presenta=tions. =C2 =A0 =C2 =A0 =C2 =A0

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=A0 please note

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