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**From:** [REDACTED] on behalf of Seth Lloyd [REDACTED]  
**Sent:** Monday, January 23, 2017 3:31 AM  
**To:** jeffrey E.  
**Subject:** Re:

Read later email first. This is very interesting. =C2 Talk tomorrow or Tuesday?

Seth

On Sun, Jan 22, 2017 at =:54 AM, jeffrey E. <jeevacation@gmail.com <mailto:jeevacation@gma=l.com>> wrote:

now that my cold medicine has=worn off a bit () . if the flip from spin up to spin down is=C2 continuous.. can the state of the electron along=the way be represented by a number. are the states quant=zed or continuous. ie integers or number line! . i= it necessary for ordinary addition to first convert states to zeros and o=es and then perform a standard computation -addition. =A0 or can you perform an operation on the state itself and then look for a=readout of the number. lets assume in two sp=ce . I have a circle . its cirumference is pi. =A0 if i want to measure it . i n=ed to represent it in ordinary numbers .. but why should i ,=C2 the thing i call circumference is a state.=C2 on that circumference ie. = clocks.- i draw a unit of arbitrary size and call it &q=ot; ONE " measured by the degrees of rotation=of my clock hand. two of the same rotations I call two u=its. and it is printed out on my clock. no matter the di=meter of the clock , it reads two units. . s= the number two is the class of all rotations of the same amount two times=. the number is only a representation . =A0 can i make the leap to say there is a state of the electron that =orresponds to the number 2 , for a specific observer. .=C2 ? I loved the way you both wea=e history into the presentations. =A0 =C2 =C2 =A0 =C2

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p=ease note

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