

Re: A Look at Quantum "Spookiness"

# Re: A Look at Quantum "Spookiness"

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*Source:* <http://sci.tech-archive.net/Archive/sci.physics.particle/2006-03/msg00039.html>

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- *From:* "Tao" <[not@xxxxxxxxxxxx](mailto:not@xxxxxxxxxxxx)>
  - *Date:* Thu, 09 Mar 2006 01:46:25 GMT
- 

"Daniel Pitts" <[googlegroupie@xxxxxxxxxxxx](mailto:googlegroupie@xxxxxxxxxxxx)> wrote in message  
<news:1141832268.396187.111290@xx>

Tao wrote:

"Daniel Pitts" <[googlegroupie@xxxxxxxxxxxx](mailto:googlegroupie@xxxxxxxxxxxx)> wrote in message  
<news:1141519884.557237.169870@xx>

Tao wrote:

"Daniel Pitts"  
<[googlegroupie@xxxxxxxxxxxx](mailto:googlegroupie@xxxxxxxxxxxx)> wrote in  
message  
<news:1141490832.471718.181110@xx>

Tao wrote:

"Erops"  
<[erops@xxxxxxx](mailto:erops@xxxxxxx)>  
wrote in  
message  
[news:220df\\$44086508\\$d8080e77\\$30809@xxxxxxxxxxxxxxxxxxxxxxxx](news:220df$44086508$d8080e77$30809@xxxxxxxxxxxxxxxxxxxxxxxx)

A  
Look  
at  
Quantum  
"Spookiness"

The  
results  
of  
quantum  
theory  
were

Re: A Look at Quantum "Spookiness"

described  
as  
"spooky"  
by  
Drs.  
Einstein,  
Podolsky,  
and  
Rosen  
because  
quantum  
theory  
seemed  
to  
reject  
"objective  
reality".  
They  
believed  
that  
all  
observed  
effects  
must  
be  
produced  
by  
"local"  
causality.  
Their  
conclusion  
resulted  
from  
their  
firm  
belief  
that  
information  
could  
not  
travel  
faster  
than  
the  
velocity  
of  
light.  
Indeed,  
if  
this  
were

Re: A Look at Quantum "Spookiness"

the  
case,  
quantum  
theory  
would  
indeed  
be  
"spooky".  
Quantum  
theory  
required,  
for  
example,  
that  
"paired  
photons"  
maintain  
polarizations  
which  
were  
opposite