

# Light

## Physicist challenges traditional concepts on relativity

**SAN FRANCISCO**—Light holds the ultimate speed record of all things in the universe - or does it? For 75 years, most physicists have generally interpreted Albert Einstein's special theory of relativity as including a faster-than-light effect. However, recent experiments in particle physics have raised puzzling questions in which separate subatomic particles exhibit apparently instantaneous communication.

A recent article in the journal *Scientific American* says five of eight recent experiments in the field of quantum mechanics point in the direction of this phenomenon. Maverick physicist Jack Sarfatti, a leader in the "new physics," says this is no surprise to him. Sarfatti, 40, uses mathematics to show that not only is a superluminal - beyond light - channel of communication exist, but that mankind can harness it and reap benefits that are now only dreamed of.

"Almost all physicists think that any kind of faster-than-light communication violates Einstein's theory of relativity," he says. "I'm saying that isn't correct." "I'm saying they have not looked carefully at what Einstein's theory is actually saying when you include quantum mechanics. When Einstein developed relativity in 1905, quantum theory was just coming along." "What I've succeeded in doing is using group theory, which is the deepest mathematical expression of quantum mechanics, which gives a deeper conception of what geometry means. What I've been able to show recently is that when you look at Einstein's theory from this deeper point of view it has the faster-than-light effect in it."

Part of the reason Sarfatti has trouble getting physicists to "bother to read" his work is that he is a dropout from academia - he taught at the University of California, San Diego - is slow to admit his mistakes and admits an admitted "bohemian" existence in San Francisco's North Beach, hanging out in espresso cafes in the city and working on his theories or talking with a small group of followers.

Particle physicist Henry Stapp of the University of California's Lawrence Berkeley Laboratory, says quantum mechanics does seem to require some superluminal connection, but he says Sarfatti's earlier ideas on the subject "were completely without merit" and they argued for a year before Sarfatti admitted it.

Stapp and Brian Josephson of Cambridge University, the youngest man ever to win the Nobel Prize,

also say the faster-than-light effect may be linked to what Hasephson calls "the higher abilities of man." In other words, paranormal powers such as ESP, telepathy and precognition.

But they disagree with Sarfatti that the effect is controllable.

"I say I think we can also use it," responds Sarfatti. "It involves something called the reciprocity principle of Hermann Weyl and something called Young patterns. There's not

much more I can say without getting mathematical but there is something in the group theory approach to quantum mechanics which indicates to me that that's the clue to how to control this superluminal effect."

Sarfatti's computations are based on the mathematical ideas of "group theory" as formulated by German mathematician Felix Klein at Erlangen University in 1872.

"In other words what I'm saying is that I now have a quantum mecha-

nical extension of Einstein's theory of relativity which shows in a very clear way to a mathematical physicist who would bother to read it - and there are a lot of physicists who don't want to even know it because it seems like it's breaking dogma - that actually when Einstein's theory is properly formulated in this bigger frame of reference it has this faster-than-light effect right there at the very basis of it.

"So I'm not contradicting relativity, I'm actually extending it," says Sarfatti, who adds that the superluminal effect may be at "the very basis of the physical mechanism of

our consciousness."

"Once one understands that, then a lot of the controversy over paranormal phenomena has to be looked at afresh from this richer quantum mechanical geometry that is able to account for these weird kinds of telepathic or precognitive effects that people have reported through the centuries and on which there is a lot

of good data," Sarfatti says. "That all begins to make sense within the framework of modern quantum physics including Einstein's theory when it's properly explained. Its a world view shift."

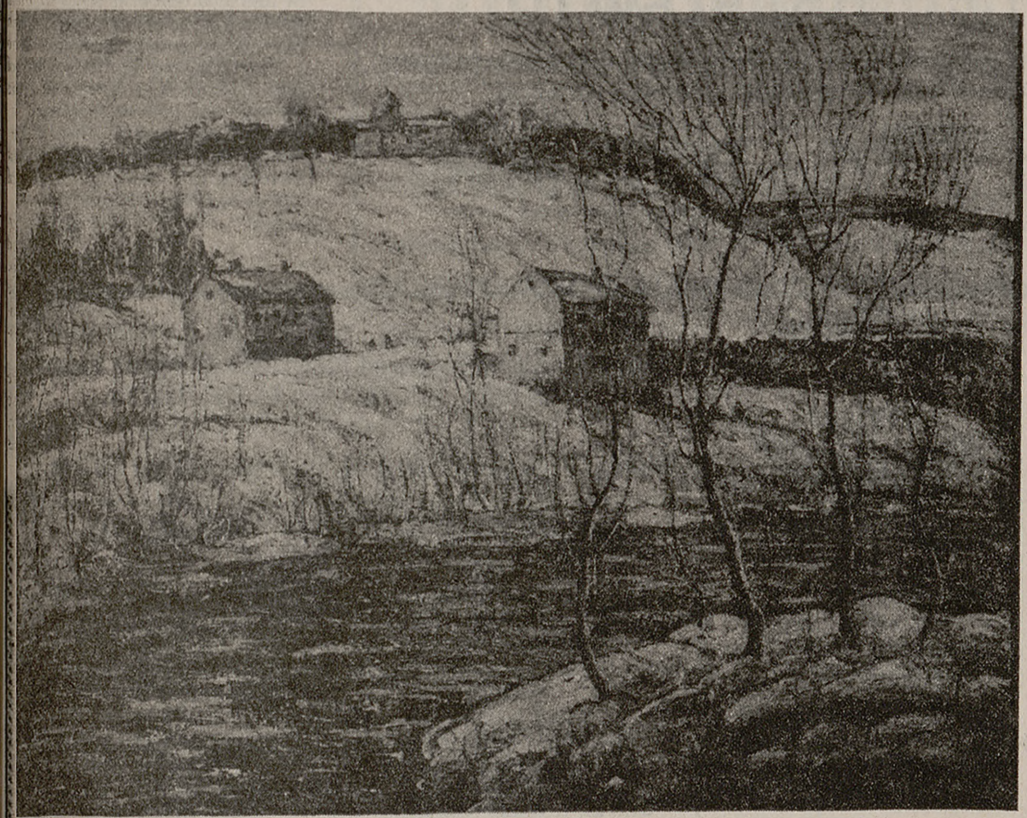


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