

## Is psi a type of knowledge?

### Results:

This experiment investigated the effect of a distant observer on a quantum optics system. The question was whether this form of “psi observation” would cause a change in the photons’ quantum wave-functions. A Michelson interferometer was located inside a sealed, light-tight, double steel-walled shielded chamber, and participants sat quietly outside the chamber with eyes closed. Interference patterns were recorded by a cooled CCD camera once per second, and average illumination levels of these images were compared during counterbalanced “mental blocking” vs. non-blocking conditions. A lower overall level of illumination was predicted to occur during the blocking condition due to partial collapse of the quantum wave function.

Based on 18 experimental sessions, the outcome was significantly in accordance with the prediction ( $z = -2.82$ ,  $p = 0.002$ ). This result was primarily due to nine sessions involving experienced meditators (combined  $z = -4.28$ ,  $p = 9.4 \times 10^{-6}$ ); the other nine sessions with non- or beginning meditators were not significant (combined  $z = 0.29$ ,  $p = 0.61$ ). The same protocol run immediately after each test session with no one present revealed no hardware or protocol artifacts that might have accounted for these results (combined  $z = 1.50$ ,  $p = 0.93$ ). Other conventional explanations were considered and judged to be implausible. This study supports the idea that psi is a direct means of gaining knowledge, because knowledge of which-path information in a quantum optics system will cause the wave function to collapse.

### Published Work:

- Radin, D. I. (2008). Testing nonlocal observation as a source of intuitive knowledge. *Explore: The Journal of Science and Healing*, 4(1), 25-35.
- Radin, D. I. (2006). *Entangled minds: Extrasensory experiences in a quantum reality*. New York: Simon & Schuster.
- Radin, D. I. (2006). Psychophysiological evidence of possible retrocausal effects in humans. In D. Sheehan (Ed.), *Frontiers of Time: Retrocausation Experiment and Theory*. Melville, NY: American Institutes of Physics Conference Proceedings (Vol. 863), pp 193-213.
- Radin, D. I., Hayssen, G., Emoto, M. & Kizu, T. (2006). Double-blind test of the effects of distant intention on water crystal formation. *Explore: The Journal of Science and Healing*, 2 (5), 408-411.
- Radin, D. I., Nelson, R. D., Dobyys, Y. & Houtkooper, J. (2006). Assessing the evidence for mind-matter interaction effects. *Journal of Scientific Exploration*, 20 (3), 361-374.
- Radin, D. I. (2006). Experiments testing models of mind-matter interaction. *Journal of Scientific Exploration*, 20 (3), 375-401.
- Radin, D. I., Nelson, R. D., Dobyys, Y. & Houtkooper, J. (2006). Reexamining psychokinesis: Commentary on the Bösch, Steinkamp and Boller meta-analysis. *Psychological Bulletin*, 132, 529-532.
- Schiltz, M., Wiseman, R., Watt, C. & Radin, D. I. (2006). Of two minds: Skeptic-proponent collaboration within parapsychology. *British Journal of Psychology*, 97, 313-322.
- Radin, D. I. (2005). The sense of being stared at: A preliminary meta-analysis. *Journal of Consciousness Studies*, 12 (6), 95-100.

- Radin, D. I. & Schlitz, M. J. (2005). Gut feelings, intuition, and emotions: An exploratory study. *Journal of Alternative and Complementary Medicine*, **11** (4), 85-91.
- Radin, D. I. (2004). On the sense of being stared at: An analysis and pilot replication. *Journal of the Society for Psychological Research*. 68, 246-253.
- Radin, D. I. (2004). Electrodermal presentiments of future emotions. *Journal of Scientific Exploration*. **18**, 253-274.
- Radin, D. I., Taft, R. & Yount, G, (2004). Possible effects of healing intention on cell cultures and truly random events. *Journal of Alternative and Complementary Medicine*, **10**, 103-112.
- Radin, D. I. (2004). Event related EEG correlations between isolated human subjects. *Journal of Alternative and Complementary Medicine*, **10**, 315-324.
- Radin, D. I. (2002). Exploring relationships between random physical events and mass human attention: Asking for whom the bell tolls. *Journal of Scientific Exploration*. **16** (4), 533-548.
- Radin, D. I. (2002). A dog that seems to know when his owner is coming home: Effects of geomagnetism. *Journal of Scientific Exploration*. **16** (4), 579-592.
- Radin, D. I. (2002). Exploratory study of relationships between physical entropy and global human attention. *Journal of International Society of Life Information Science*, **20** (2), 690-694.
- Radin, D. I., Machado, F. and Zangari, W. (2000). Effects of distant healing intention through time and space: Two exploratory studies. *Subtle Energies and Energy Medicine*, **11** (3) 207-240.
- Radin, D. I. (2000). What's ahead? *Journal of Parapsychology*, **64**, 353-364.

## **Researchers' Contacts:**

Dean Radin, PhD  
Institute of Noetic Sciences  
101 San Antonio Road, Petaluma, California 94952 USA

Phone: 707-779-8233  
Fax: 707-781-7420  
Email: dean@noetic.org