

## **Psi, nonlocality and entangled photons**

### **ABSTRACT:**

#### **Background**

Investigations of mind-matter interaction study the relationship between nonlocal aspects of mind and the behavior of local physical targets.

#### **Aims**

This series of experiments extended such investigations into interactions between nonlocal mind and nonlocal physical targets, the latter in the form of quantum entangled photons.

#### **Method**

Entanglement correlation strength measured in real-time was presented via displays on a computer monitor or web browser. Participants were tasked with mentally influencing that metric.

#### **Results**

A statistically significant increase in entanglement strength was obtained in experimental conditions in the four lab studies ( $p < 0.02$ ), with particularly strong results observed in three studies conducted at the Institute of Noetic Sciences ( $p < 0.0002$ ). Modest results ( $p < 0.05$ , adjusted with False Discovery Rate) were observed in a high-quality subset of entanglement samples in an online experiment. Control experiments using the same equipment and protocols, but without observers present, showed results consistent with chance expectation in both laboratory and online studies.

#### **Conclusions**

The results suggest that the fidelity of entangled states and the nonlocal resource they entail may be mutable in systems that include conscious awareness. These results are relevant for interpretations of quantum theory, especially if future studies show that entanglement strength can be mentally modulated above the Tsirelson Bound – the mathematical upper limit predicted by quantum theory. Such a result would suggest that quantum theory in its present form does not hold when physical systems interact with certain mental states.

#### **Keywords**

Quantum entanglement, Mind-matter interaction, Quantum theory, Tsirelson Bound, Nonlocal matter

### **Published Work:**

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**Researcher's Contacts:**

Dean Radin  
Institute of Noetic Sciences  
101 San Antonio Road  
Petaluma, California, 94952  
USA  
Phone: +1-707-775-3500  
Email: [dradin@noetic.org](mailto:dradin@noetic.org)