

## **Is the matrix-experiment really a robust and artifact free experimental model to demonstrate generalised entanglement effects?**

### **ABSTRACT:**

#### **Background**

The Matrix Experiment, originally developed by Walter von Lucadou, is a special set-up for a micro-PK experiment in which participants do not target the random output as such. Rather a large matrix of psychological and physical variables associated with the experiment is constructed and the number of significant correlations in this matrix is tested against chance and a control matrix. Previous experiments were positive.

#### **Aims**

To develop a consensus protocol for this experiment and pilot test it in order to allow for a wider application in the scientific community.

#### **Method**

We conducted a Delphi-study and convened an expert group to discuss the protocol. The final protocol was used for a first pilot.

#### **Results**

We convened 26 experts and found a consensus on a final protocol. The protocol was made public at Open Science Framework at <https://osf.io/cx2tf/>. One first pilot experiment was conducted. This experiment could not replicate our earlier findings.

#### **Conclusions**

There is a consensus protocol available that can be used by researchers. The first attempt using this protocol was negative. Thus, it seems the Matrix experiment is not as such a simple, fool-proof method but is also subject to a decline effect. Additional analysis and discussions show that the effect seems to be preserved within the experiment, but seems to shift between the experimental and control matrix. It is likely that a new and more sensitive method to document it will be necessary. The agreed-upon method of a Monte-Carlo analysis destroys correlations and thus might be overly conservative.

#### **Keywords**

Micro-PK, Entanglement, Replication, Decline effect, Consensus protocol

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**Researcher's Contacts:**

Harald Walach  
Change Health Science Institute  
Schönwalder Str. 17  
D – 13347 Berlin  
Germany  
Tel.:0049-30-467 97 436  
Email: [hwalac@gmail.com](mailto:hwalac@gmail.com)