



universität  
**uulm**

**Physikalisches Kolloquium**  
Einladung

**Physics Colloquium**  
Invitation

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**Monday, 27 May 2024**

**BE AWARE - ROOM CHANGE** Lecture Hall **O25/H2**, at 16:15  
Coffee and cookies will be served in front of the lecture hall from 16:00

## **Counterfactual Communication: Optical Communication without Photons**

**Prof. M. Suhail Zubairy**

Texas A & M University,  
Department of Physics & Astronomy



<https://artsci.tamu.edu/physics-astronomy/contact/profiles/m-suhail-zubairy.html>



It has long been assumed in physics that for information to travel between two parties in empty space, physical particles have to travel between them. Here, using the “chained” quantum Zeno effect, I discuss how information can be transferred between the two parties without any physical particles traveling between them.

Host: Prof. Dr. Wolfgang Schleich, Institute of Quantum Physics

Organisation: Prof. Dr. Jens Michaelis, Institute of Biophysics, jens.michaelis@uni-ulm.de, +49-731-50-23050