

**RNDr. Miroslav Ježek, Ph.D., Palacký University Olomouc**

Photonic quantum technology assisted by artificial intelligence



We will discuss AI-aided control and readout of quantum and photonic systems. We will review our recent results on the generation, manipulation, and detection of light at the level of individual photons with applications ranging from communication security to biomedical imaging. We will briefly cover the efficiency, interpretability, and device independence of employed AI modalities.