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All non-local states of identical particles, or when indistinguishability is a resource

Wednesday 15 January 2025 15:35 (30 minutes)

Entanglement due to symmetrisation of the wave function in the second-quantised theory is ubiquitous, but at the same time it is severely constrained by the inability to address individual particles. So, can it actually be turned into a useful resource of non-local correlations observed in a laboratory? I will show that this is possible with very modest passive linear optical means for almost every state of identical particles.

Presenter: BŁASIAK, Paweł (IFJ PAN)

Session Classification: prof. Zalewski's session