

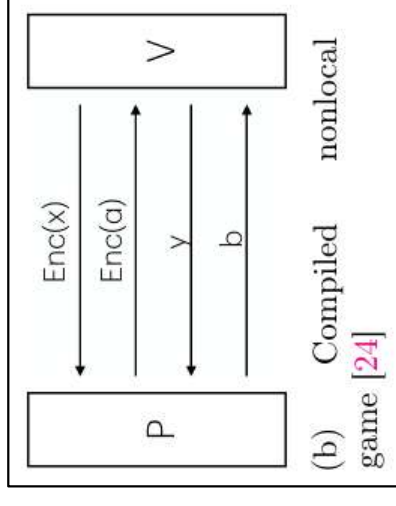
Dr. Simon Schmidt (Universität Bochum)

Compiled nonlocal games

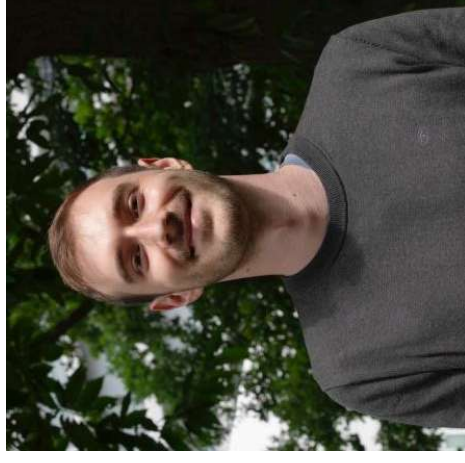
Nonlocal games help us understand quantum entanglement, and recently researchers proposed a game changing twist: replacing one of the two players with cryptography! In this talk, we will see that, even in this setting, players are still fundamentally limited: They cannot win the "compiled game" more than commuting players can win the original nonlocal game. This follows from a novel combination of techniques from cryptography and operator algebras. The result may pave the way for new applications, such as constructing new self-testing protocols.

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From S. Schmidt,
<https://arxiv.org/abs/2408.0671>



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12:00 PM
Building E2 6, Room E.04