**From nonlocality transitivity to resource marginal problems and back**

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In this talk, I recall the nonlocality transitivity problem and explain how this leads to a more general class of problems known as the resource marginal problems (RMPs). More precisely, RMPs concern the possibility of having a resource-free target subsystem compatible with a given collection of marginal density matrices. We show that a resource theory for marginal density matrices naturally arises from any given RMP and present some general features of such a theory. Then, we focus on a special case of RMPs known as the entanglement transitivity problems and explain how our progress on this problem has led to progress in the original nonlocality transitivity problem.