

FUNDAMENTAL LIMITATION ON ANY INTERNET ARCHITECTURE

SEMINAR

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Abstract

Communication and computation are the twin pillars of the modern internet structure, serving humanity efficiently since its inception. With the rise of quantum information theory, there has been a growing interest in the development of quantum internet architecture, which has already demonstrated clear advantages over its classical counterpart. But what if, in future, a more fundamental theory of nature emerges – one that includes both classical and quantum theory in their respective scales? Could such a theory enable an even more powerful internet infrastructure. In this talk, we explore this possibility and demonstrate no internet structure can surpass quantum one, offering simultaneous advantage for both communication and computation tasks.

Everyone is invited to attend

