

ABC OF RYDBERG PHYSICS FROM ATOMS TO BOTTLES TO COMPUTERS

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Neutral atom arrays are now a leading platform for quantum information processing. The physics of Rydberg atoms enables highly coherent quantum memory to be combined with fast and long range entangling operations in large qubit arrays. In this talk I will show how coherent control of Rydberg atoms is enabling quantum processing and provide a snapshot of the current frontier of quantum computing.

FRIDAY,
24.11.2023

2:00 PM

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