## 24th Australian Institute of Physics Congress



Contribution ID: 388 Type: Poster

## Quench dynamics in the Jaynes-Cummings-Hubbard and Dicke models

Thursday 15 December 2022 18:45 (15 minutes)

Both the Jaynes-Cummings-Hubbard and Dicke models can be thought of as idealised models of a quantum battery. In this work we examine the "charging" properties of such systems and find that there is no quantum advantage scaling with system size.

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Session Classification: Poster session

Track Classification: AIP Congress: AIP: Condensed Matter, Materials and Surface Physics