24th Australian Institute of Physics Congress



Contribution ID: 395 Type: Talk (preferred)

Passive superconducting circulator on a chip

Thursday 15 December 2022 16:30 (15 minutes)

We report the first realisation of a passive on-chip circulator which is made from a superconducting loop with three Josephson junctions and is tuned with only DC control fields. Our results demonstrated non-reciprocal behaviour and identified future path for improvement.

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Session Classification: AIP: Quantum Science and Technology

Track Classification: AIP Congress: AIP: Quantum Science and Technology