

Chapter 3

Geometrical dependence of quantum decoherence in circular arenas with side-wires

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Chapter 5

Effect of two-dimensional parity symmetry breaking in Aharonov-Bohm interference phenomena

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Chapter 6

Mapping electromagnetic dualities via quantum decoherence measurements in 2D materials

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Chapter 7

Epitaxial thin films of pyrochlore iridate $\text{Bi}_{2+x}\text{Ir}_{2-y}\text{O}_{7-\delta}$: structure, defects and transport properties

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Chapter 8

Magnetotransport properties of epitaxial Ge/AlAs heterostructures integrated on GaAs and silicon

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