

## Persistent Current in Two Connected Mesoscopic Rings with Reservoirs

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(Received: 2002-6-10; Revised: 2002-8-15)

**Abstract:** The persistent current and transmission of two connected Aharonov-Bohm rings coupled to external leads are solved analytically. The conditions on which we may observe persistent current, zero or perfect transmission as well as Fano resonance are studied.

PACS: 72.10.Bg, 72.15.Gd, 72.20.My

Key words: persistent current, Aharonov-Bohm effects, mesoscopic rings

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