24th Australian Institute of Physics Congress



Contribution ID: 597

Type: Talk (preferred)

Magnetic Raman scattering in quasi-one-dimensional antiferromagnets

Friday 16 December 2022 09:45 (15 minutes)

We derive the magnetic Raman intensity of weakly coupled Heisenberg chains using perturbation theory and the Bethe ansatz. An intensity peak that corresponds to the enhanced scattering of two triplon excitations is identified.

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Session Classification: AIP: Condensed Matter, Materials and Surface Physics

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