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Scattering tensors in Si and Ge

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Abstract content
   (Max 300 words)

Abstract
Scattering tensors are of great importance in the interpretation of Raman Scattering spectra. The symmetry properties are used to determine the matrix elements of the scattering tensors. Using Birman's method we have calculated the Clebsch-Gordan coefficients for first-order Raman Scattering tensors in Si and Ge with Oh7 symmetry. The matrix elements of the scattering tensors are linear combination of Clebsch-Gordan coefficients. Our theoretical results are used in the interpretation of available experimental data.

Apply to be
 consider for a student
   award (Yes / No)?

Yes

Level for award
 (Hons, MSc,
   PhD)?

PhD

Main supervisor (name and email)
and his / her institution

Prof. H. W. Kunert University of Pretoria

Would you like to <br> submit a short paper <br> for the Conference
 Proceedings (Yes / No)?

Yes

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