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## Clebsch-Gordan coefficients for Scattering Tensors in Bi<sub>2</sub>Se<sub>3</sub>

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### Abstract content <br> &nbsp; (Max 300 words)

The analysis of Raman and Brillouin scattering spectra requires the knowledge of scattering tensors. Based on Birman's method, we compute the Clebsch-Gordan coefficients for first-order Raman and Brillouin scattering for Bi<sub>2</sub>Se<sub>3</sub> with D3d5 space group symmetry. The linear combination of Clebsch-Gordan coefficients gives the matrix elements of scattering tensors. Our predictions are useful for interpretation of experimental Raman and Brillouin scattering measurements.

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Yes

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