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Type: **Poster Presentation**

## Intervalley and Intravalley Scattering in Diamond Structure, Si and Ge

*Wednesday, 13 July 2011 17:00 (2 hours)*

Optical selection rules for the intervalley scattering for direct and indirect transitions are investigated. The non-zero matrix elements of the scattering tensors are derived by the method of vector coupling coefficients. These coefficients are needed for the understanding of Gunn effect.

**Level (Hons, MSc, PhD, other)?**

MSc

**Consider for a student award (Yes / No)?**

Yes

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

Yes

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**Session Classification:** Poster1

**Track Classification:** Track A - Condensed Matter Physics and Material Science