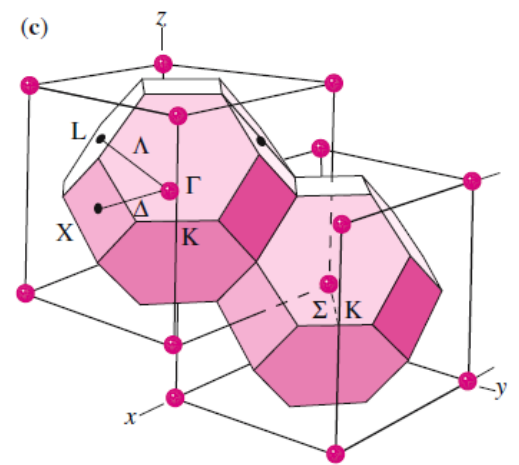
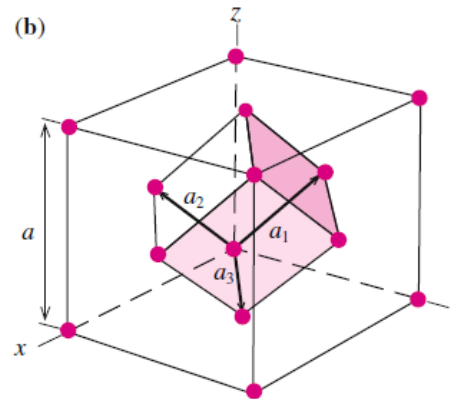
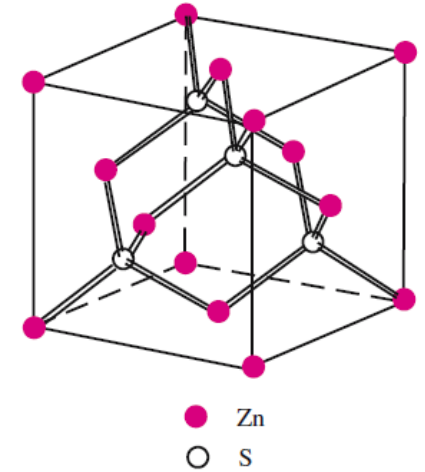
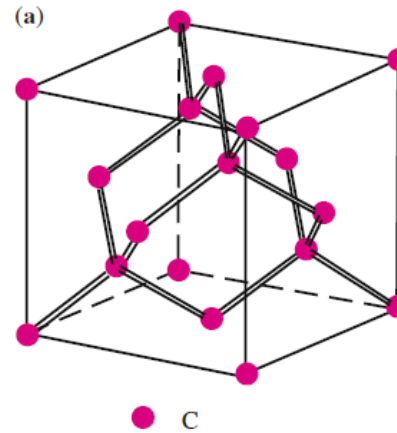
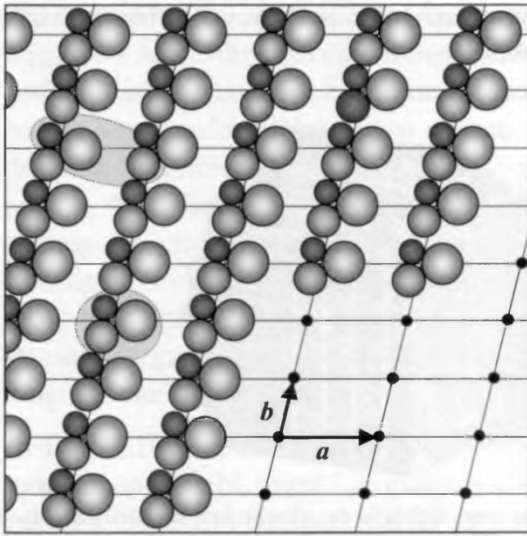


| | 10 to 12 | | 2 to 4 |
|----|--------------------------|----|------------------------------|
| 1 | Adem, Eshraq | 1 | Althoff, Jannis |
| 2 | Beyer, Paul | 2 | Cialone, Matteo |
| 3 | Breddin, Xenia Doreen | 3 | Fernandez Herrero, Analia |
| 4 | Buchmann, Jens | 4 | Köpping, Mario |
| 5 | Burchard, Katharina | 5 | Ludwig, Juliane |
| 6 | Christ, Marc Klaus | 6 | Sontheimer, Bernd |
| 7 | Dachkovski, Dennis | 7 | Ulonska, Stefan |
| 8 | Enslin, Johannes- Tobias | 8 | Waßerroth, Sören |
| 9 | Hartmann, Martin | 9 | Winta, Christopher Jeffrey |
| 10 | Kronfoth, Philipp | 10 | Yasin, Ula Mehzen Hummadi |
| 11 | Lang, Felix | 11 | de Azevedo Lopes, Amanda |
| 12 | Müller, Niclas | 12 | Prychynenko, Diana |
| 13 | Oddone, Valerio | 13 | Akay, Ömer |
| 14 | Ries, Maximilian | 14 | Grelich, Eugen |
| 15 | Schulze, Celina Seraphin | 15 | Quadt, Frank |
| 16 | Teucher, Markus | 16 | Skoultzos, Theodore |
| 17 | Tolksdorf, Daniel | 17 | Drescher, Lorenz |
| 18 | Wansleben, Malte Lauritz | 18 | Jaura, Ondrej |
| 19 | Yildiz, Mahir | 19 | Lotti, Francesco |
| 20 | Fioravanti, Federice | 20 | Przyrembel, Daniel |
| 21 | Brandstätter, Ron | 21 | Zamani, Ghazaleh |
| 22 | Zerbe, Antja | 22 | Timachi, Mohammad Hadi |
| 23 | Jay, Raphael | 23 | Jay, Raphael |
| 24 | Bomers, Mario | | Kristin Rammelkamp |

Crystal structure

diamond & zincblende



Thanks for your answers!

Motivation

I want to take this course, because...

Solid-state physics are awesome, I want to develop improved materials some day

I want to take this course, because...

It fits well with ten other courses I'm having this semester and because I hope it will be better than atoms & molecules last semester 😊

I want to take this course, because...

I am interested in boosting photovoltaic capability & power in solar cells

Expectations

I absolutely want to hear about...

- theory + always a motivation why the "tools" are interesting and where you can apply them

How exactly can we gain and understand information about the crystal structure and properties of solids. Why do we use so many different techniques and which is for what?

I am interested in the experiments, not only in the theory.

So I feel insecure about the experimental parts, like interpret data to obtain info about the crystal.

Topics – aim high!

One effect, experiment, material, or phenomenon I want to be to explain after taking this course...

Quantum Hall Effect

Kondo-effect

Rashba-effect, topological insulators

- high- T_c -superconductivity ☺

Topics - I was impressed...

One effect, experiment, material, or phenomenon I want to be to explain after taking this course...

About Nanostructures

maybe something about nano-tubes?

I WOULD LIKE TO HAVE A DEEPER KNOWLEDGE ABOUT ALL
NANO-MATERIAL, MOREOVER GRAPHENE, NANOWIRES.

Raman spectroscopy ;)

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11 DECEMBER 2000

Double Resonant Raman Scattering in Graphite

C. Thomsen and S. Reich

physik, Technische Universität Berlin, Hardenbergstrasse 36, 10623 Berlin, Germany
(Received 9 August 2000)

We find that the electronic dispersion in graphite gives rise to double resonant Raman scattering for excitation energies up to 5 eV. As we show, the curious excitation-energy dependence of the graphite *D* mode is due to this double resonant process resolving a long-standing problem in the literature and invalidating recent attempts to explain this phenomenon. Our calculation for the *D*-mode frequency shift ($60 \text{ cm}^{-1}/\text{eV}$) agrees well with the experimental value.

PACS numbers: 78.30.-j, 81.05.Tp

I absolutely want to hear about...

Double RRS, SERS

Good & bad news

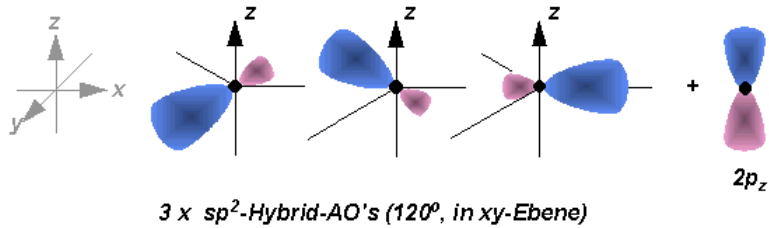
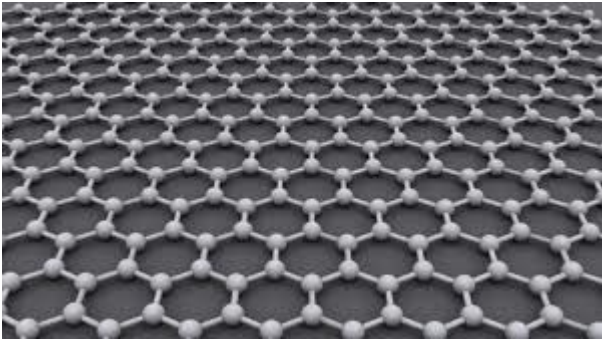
I absolutely want to hear about...

group theory

I don't want to hear about...

group theory Joseph's

sp² wave functions & symmetry



sp² wave functions & symmetry

