Key Takeaways (Points to mull over and emphasize in talk)

* Difference in resistive behaviour between a metal and an intrinsic semiconductor
* Evaluation of carrier densities and mobilities in a doped semiconductor using Hall-effect : What do the numbers mean? Are they sensible and do they compare well with literature?
* Temperature dependence of Hall effect in p-type semiconductor : Why does the sign of Hall voltage change on heating the material. Extrinsic vs Intrinsic regime?
* Extraction of Band-gap in high temperature regime for doped semiconductor : How does it compare with the corresponding intrinsic semiconductor values? If comparable, Why ?

Overall, your presentation:

* Should show some appreciation/understanding of the role of band structures in determining transport behaviour
* Focuses primarily on information extracted about transport, with the Hall Effect used as a tool to do this
* the temperature dependent data (Vhall(T) and R(T)) is rich in opportunities to discuss transport physics, the best talks take advantage of the chance to explain these trends

A checklist of things to check before finishing the data analysis

(i) Do carrier densities and mobilities have SI units?

(ii) Does Temperature have units in Kelvin where needed  
(iii) Have you averaged values of n and mu obtained from different measurements.

(iv) Have you calculated uncertainties where possible?

(v) Check the number of significant digits for your results. Excessive digits sometimes modify the meaning of your good result.

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