

Physics 4050H: Project III

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Initial ideas: I want to generate P-V and I-V curves for both solar panels. Maybe do this with the solar sim, maybe not. From here we could look at MPP. See some solar datasheets for other stuff. It would be cool to run the solar cell in reverse w/the monochromator to try to determine the band gap (apparently there's some statistics here that make it not just direct between the band gap and emitted photon energy. Out of my wheelhouse for now.). To carry on a big focus of one of the groups I'd like to look at measuring the characteristics of the batteries of the solar lamps. Apparently resistance is usually measured with an "AC ohmmeter". [1]

1 References

- [1] Challenge Electronics. *Omni-Directional Foil Electret Condenser Microphone*, 2010.