

Lab 3 Assignment

Part 1 - LabView work:

Read into the computer via an analog input channel a waveform that is sent to an analog output channel. If this was done already in Lab Report 2, indicate this in Lab Report 3. If not, this portion of Lab Report 3 should be relatively short, perhaps 0.75 to 1.5 pages. Discuss the limitations of the data transfer rates.

Part 2 – AM 1.5 standard spectrum relative to the clear sky spectrum in Toledo on June 21. Compare and contrast (1/2 – 1 page).

Part 3 – Download the AMO spectrum and fit it with the Black Body curve. Show both the data and the fit on the same graph to insure good correspondence. Make sure units work out. Explain why the BB spectrum can be used as a fit, and report the fit temperature. Explain the Solar Constant, and its variation. How much sunlight hits the world? (1-2 pages)