

# Electron Diffraction - Pre-lab exercise

You can use the lab report template to prepare the submission of the pre-lab exercises. Feel free to use calculations or graphs in your final report, but you don't need to include prelab with the report.

## 1. Theoretical graph

Prepare a theoretical plot of Eq.(5) from the manual, using known values of the parameters and making reasonable guess on the range of the expected angles  $\theta$ .

## 2. Error propagation

How you can find the uncertainty of  $\Delta \sin(\theta)$  from the instrumental uncertainty the arc measurements  $\Delta s$ ?