Protocol 3

1. Measure the focal length of the **lens system** consisting of a converging lens (+100 mm) and a diverging lens (-300 mm) using the Bessel method.

2. For a given distance d between the object and the screen, locate the two positions of the lens system which produce sharp images. Repeat the measurements for 6 different values of d.

3. Calculate the individual values and the average value of f_{ges}. Using the averaged value for f_s obtained in protocol 2 you can calculate the averaged value of f_z for the diverging lens.

4. Calculate the standard deviation of f_z (use error propagation).