

7.1 Gaussian beam

Java applet

The screenshot shows a Java applet interface for simulating a Gaussian beam. The interface is organized into several sections:

- Component Selection:** A top row of buttons allows selecting optical components: "Ball Boundary", "Plane Boundary", "Output / Výstup dat", and "Graph". A second row includes "Empty Space", "Thin lens", "Plane Mirror", and "Ball Mirror".
- Input Fields:** There are five input fields for parameters:
 - Wavelength / Vlnová délka [nm]:** Set to 750.
 - Width of the beam / Šířka svazku [mm]:** Set to 1.
 - Radius of waveplane / Poloměr vlnoplochy [m]:** Set to 10.
 - Length of empty space in front of system [m]:** Set to 5.
 - Length of empty space behind the system [m]:** Set to 5.
- Action Buttons:** A large blue button labeled "Calculate / Vypočti" is located on the left, and a "Help" button with a question mark icon is on the right.