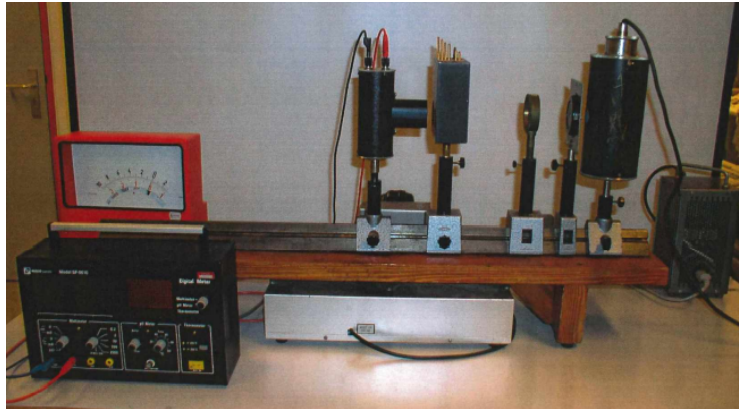
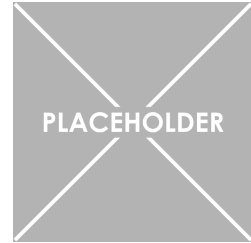


Photoelectric Effect Stopping Potential

Key words: photoelectric effect, stopping potential, electron



Equipment List:

1. Optical rail
2. Mercury lamp
3. Optical diaphragm
4. Lens
5. Box of filters
6. Photocell
7. Multimeter

How to assemble and operate:

- Connect the components as shown
- Turn on the mercury lamp and measure the stopping voltage for a given filter
- Repeat this for different filters and observe a higher stopping voltage for bluer filters

Description/Theory:

This demonstration illustrates the wavelength dependency of the stopping potential, and can also be used to show it is independent of the light source intensity.

Comments/Notes: