

## **Special project 2 (due a week after you get back your pictures)**

### **Project title: Pinhole camera**

**Main objectives:** to make a pin-hole camera, took pictures and analyze them from physics and artistic point of view.

Prof. Dudik worked with you on the design and operation of your camera, and you will need to prepare a brief description of your device. Include a one-paragraph physics description on how pinhole camera should work in principle, and then give a summary of how your particular camera was designed and operated. Don't forget to summarize any challenges or failed attempts!

The second part of the narrative will be a picture analysis. I don't know how many images you will receive, but assuming that you have a few, you will need to pick one that is the best from experimental physics point of view (i.e. is the best illustration of how a pinhole camera should operate), and analyze it from the point of view of a physicist (what worked and what not, what could be improved). Then pick the most artistically interesting image (it can be the same), and prepare a couple-sentence caption for it to be displayed in the exhibition somewhere.