

**Written homework for studio 11a**

Above the atmosphere the average intensity of sunlight is about  $1000 \text{ W/m}^2$ .

- a) What is the average  $E_{rms}$  there?
- b) What would be the radiation pressure exerted on a mirror there?
- c) The sun is 150 million kilometers distant. How long does it take light to travel from the sun to the earth?