

# Mathematical Foundations of Computer Vision

Michael Breuß

**Released:** 23.12.2011

**Assigned to:** Tutorial at 12.01.2012

## Assignment 7 – The Christmas Sheet

### Exercise No. 0 – Smoke the Script

Read the Script under the Christmas tree!

### Exercise No. 1 – Go back to the Essentials

Assume that the following essential matrix is given:

$$E = \begin{pmatrix} 0 & 0 & 0 \\ \sqrt{2} & 0 & \sqrt{2} \\ 0 & 2 & 0 \end{pmatrix} \quad (1)$$

Compute the correct pose  $(R, T)$  from  $E$ . **(20pts)**