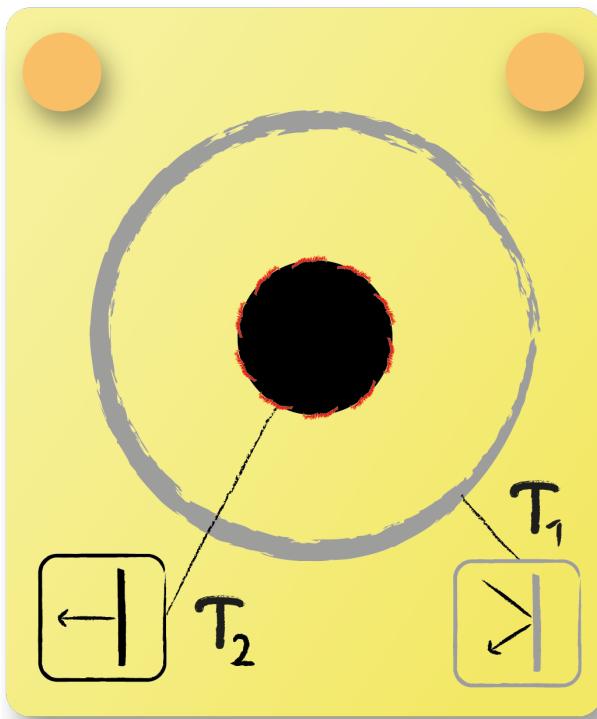


Surface Brightness: Task 13



The image shows a grey body 1 fully enclosing a black body 2.

1



$$\dot{Q}_2 = \sigma \cdot A_2 \cdot T_2^4$$

2



Body 2 is black and therefore completely lacks any interaction with foreign radiation but absorbing. Hence its surface brightness only consists of its black body emission.