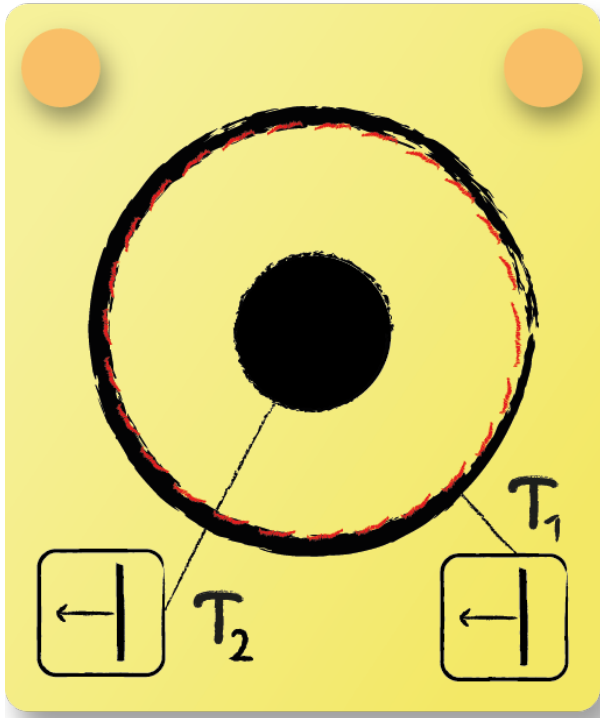# Surface Brightness: Task 12

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

1

$$\dot{Q}_1 = \sigma \cdot A_1 \cdot T_1^4$$

2

Body 1 is black and therefore lacks any interaction with foreign radiation but absorbing. Hence its surface brightness only consists of its black body emission.