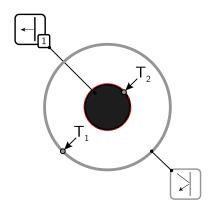


## EB - Rad. - Net 01

Write the net heat flux between object 1 and object 2.  $\dot{Q}_{1\leftrightarrow 2}$ . Use view factors and surface brightness whenever possible.



Definition of the net heat flux:

$$\dot{Q}_{1\leftrightarrow 2} = \Phi_{12}\dot{Q}_1 - \Phi_{21}\dot{Q}_2^1$$

## Heat fluxes:

The surface brightnesses of bodies 1 and 2 will be determined in a separate task and can be stated as  $\dot{Q}_1$  and  $\dot{Q}_2$  respectively.

Substituting and rewriting:

$$\dot{Q}_{1\leftrightarrow 2} = \Phi_{12}\dot{Q}_1 - \dot{Q}_2$$