



The diagram shows a rectangular box labeled 'system' with a subscript E . To the right of the box is the text 'rigid boundary can exchange energy' with an arrow pointing left towards the box. Below the box is the word 'surroundings' followed by the expression $E_{\text{tot}} - E$. At the bottom of the diagram is a thick horizontal line representing a boundary. Below this line is the text 'rigid, adiabatic boundary' with an arrow pointing up towards the line.

system

E

rigid boundary can
exchange energy

surroundings

$E_{\text{tot}} - E$

rigid, adiabatic boundary