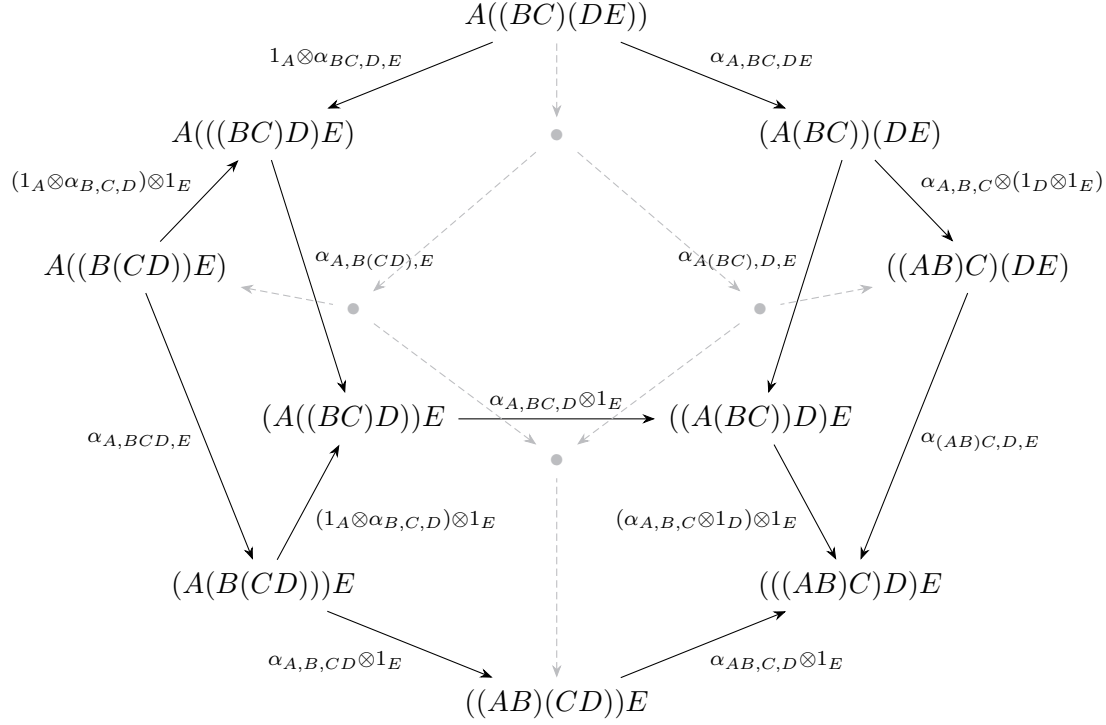Front. Note that the symbol $\otimes$ has been suppressed.

$$A((BC)(DE))$$

$1_A\otimes\alpha_{BC,D,E}$

$\alpha_{A,BC,DE}$

$$A(((BC)D)E)$$

$$(A(BC))(DE)$$

$(1_A\otimes\alpha_{B,C,D})\otimes 1_E$

$\alpha_{A,B,C}\otimes(1_D\otimes 1_E)$

$$A((B(CD))E)$$

$\alpha_{A,B(CD),E}$

$\alpha_{A(BC),D,E}$

$$((AB)C)(DE)$$

$$(A((BC)D))E \xrightarrow{\ \alpha_{A,BC,D}\otimes 1_E\ } ((A(BC))D)E$$

$\alpha_{A,BCD,E}$

$(1_A\otimes\alpha_{B,C,D})\otimes 1_E$

$(\alpha_{A,B,C}\otimes 1_D)\otimes 1_E$

$\alpha_{(AB)C,D,E}$

$$(A(B(CD)))E$$

$$(((AB)C)D)E$$

$\alpha_{A,B,CD}\otimes 1_E$

$\alpha_{AB,C,D}\otimes 1_E$

$$((AB)(CD))E$$

Back.

$$A((BC)(DE))$$

$\alpha_{A,BC,DE}$

$1_A\otimes\alpha_{B,C,DE}$

$1_A\otimes\alpha_{BC,D,E}$

$$(A(BC))(DE)$$

$$A(B(C(DE)))$$

$$A(((BC)D)E)$$

$\alpha_{A,B,C}\otimes(1_D\otimes 1_E)$

$\alpha_{A,B,C(DE)}$

$1_A\otimes(1_B\otimes\alpha_{C,D,E})$

$(1_A\otimes\alpha_{B,C,D})\otimes 1_E$

$$((AB)C)(DE)$$

$\alpha_{AB,C,DE}$

$$(AB)(C(DE))$$

$$A(B((CD)E))$$

$$A((B(CD))E)$$

$1_A\otimes\alpha_{B,CD,E}$

$(1_A\otimes 1_B)\otimes\alpha_{C,D,E}$

$\alpha_{A,B,(CD)E}$

$\alpha_{(AB)C,D,E}$

$$(AB)((CD)E)$$

$\alpha_{A,BCD,E}$

$$(((AB)C)D)E$$

$\alpha_{AB,CD,E}$

$$(A(B(CD)))E$$

$\alpha_{AB,C,D}\otimes 1_E$

$\alpha_{A,B,CD}\otimes 1_E$

$$((AB)(CD))E$$