

$$(\mathcal{T}(L^{\mapsto 1})F)(x, y) = F(x, e^{\text{Ad}_x} y) = (F \circ \text{IA}_d)(x, y)$$

$$(\mathcal{T}(R_{12} R_{13} R_{23})F)(x, y, z) = (F \circ \text{IA}_{d_{23}} \circ \text{IA}_{d_{13}} \circ \text{IA}_{d_{12}})(x, y, z)$$

$$(x, y, z) \mapsto (x, y^x, z) \mapsto (x, y^x, z^x) \mapsto (x, y^x, (z^y)^{y^x})$$

other side:

$$(x, y, z) \mapsto (x, y, z^y) \mapsto (x, y, (z^y)^x) \mapsto (x, y^x, (z^y)^x)$$