Derivation of $(A \supset (B \supset A))^t$:

$$\dfrac{\dfrac{\dfrac{\text{axiom for } A}{A^f, A^p, A^t, B^f, B^p} \quad \dfrac{\text{axiom for } A}{A^f, A^p, A^t, B^f}}{A^f, A^p, (B \supset A)^t} \quad \dfrac{\dfrac{\dfrac{\text{axiom for } A}{A^f, A^p, A^t, B^f, B^p} \quad \dfrac{\text{axiom for } A}{A^f, A^p, A^t, B^f, B^p}}{A^f, A^p, B^p, (B \supset A)^t} \quad \dfrac{\dfrac{\text{axiom for } B}{A^f, A^t, B^f, B^p, B^t} \quad \dfrac{\text{axiom for } A}{A^f, A^p, A^t, B^f, B^t}}{A^f, B^t, (B \supset A)^t}}{A^f, (B \supset A)^p, (B \supset A)^t}}{(A \supset (B \supset A))^t}$$

Derivation of $(A \supset (B \supset A))^t$:

$$\dfrac{\dfrac{3 \quad 4}{2} \quad \dfrac{\dfrac{3 \quad 3}{6} \quad \dfrac{8 \quad 9}{7}}{5}}{1}$$

Table of sequents:

1: $(A \supset (B \supset A))^t$
2: $A^f, A^p, (B \supset A)^t$
3: A^f, A^p, A^t, B^f, B^p
4: A^f, A^p, A^t, B^f
5: $A^f, (B \supset A)^p, (B \supset A)^t$
6: $A^f, A^p, B^p, (B \supset A)^t$
7: $A^f, B^t, (B \supset A)^t$
8: A^f, A^t, B^f, B^p, B^t
9: A^f, A^p, A^t, B^f, B^t