```
{β = B[ω, Sum[α10 i+j ti hj, {i, {1, 2, 3}}, {j, {4, 5}}]],
 β1 = β // tm1,2→1 // sw1,4;
 β2 = β // sw2,4 // sw1,4 // tm1,2→1,
 FullSimplify[β1] == FullSimplify[β2]
}
```

$$\left\{\begin{pmatrix} \omega & h_4 & h_5 \\ t_1 & \alpha_{14} & \alpha_{15} \\ t_2 & \alpha_{24} & \alpha_{25} \\ t_3 & \alpha_{34} & \alpha_{35} \end{pmatrix}, \begin{pmatrix} \omega\,(1+\alpha_{14}+\alpha_{24}) & h_4 & h_5 \\ t_1 & \frac{(\alpha_{14}+\alpha_{24})\,(1+\alpha_{14}+\alpha_{24}+\alpha_{34})}{1+\alpha_{14}+\alpha_{24}} & \frac{(\alpha_{15}+\alpha_{25})\,(1+\alpha_{14}+\alpha_{24}+\alpha_{34})}{1+\alpha_{14}+\alpha_{24}} \\ t_3 & \frac{\alpha_{34}}{1+\alpha_{14}+\alpha_{24}} & \frac{-\alpha_{15}\,\alpha_{34}-\alpha_{25}\,\alpha_{34}+\alpha_{35}+\alpha_{14}\,\alpha_{35}+\alpha_{24}\,\alpha_{35}}{1+\alpha_{14}+\alpha_{24}} \end{pmatrix}, \text{True}\right\}$$