

2. Sonderfall

Die beiden, möglichen Dreifachspieg-
ergeben dasselbe Bild

$$S_a \circ S_b \circ S_a = S_b \circ S_a \circ S_b \quad | \circ S_b$$

$$S_a \circ S_b \circ S_a \circ S_b = S_b \circ S_a \circ \cancel{S_b \circ S_a} \quad | \circ S_a \quad | \circ S_b$$

$$\underbrace{S_a \circ S_b \circ S_a \circ S_b}_{\text{Identität}} = Id$$

$$\underbrace{D_{z,2\alpha} \circ D_{z,2\alpha} \circ D_{z,2\alpha}}_{D_{z,6\alpha}} = D_{z,360^\circ} = D_{z,360^\circ}$$

Dann gilt $6\alpha = 360^\circ$
 $\alpha = 60^\circ$

$$\begin{aligned} & S_{a_2} \circ S_b \circ S_{a_1} \\ &= S_{a_2} \circ S_{b'} \circ S_{a_1} \quad \text{mit } b' = a_2 \\ &= Id \circ S_{a_1} \\ &= S_{a_1} \end{aligned}$$

