

Six Involutions

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There are 3 commuting involutions on V -knots:

1. 1D intrinsic orientation reversal. $\gamma \mapsto \bar{\gamma}$
(per component)

2. 2D ambient orientation reversal. $\gamma \mapsto \gamma^\uparrow$
(global)

3. Depth Flip. (global) $\gamma \mapsto \gamma^*$

The first two of these descend to W -knots.

There are three commuting involutions on ribbon 2-knots of long tubes:

1. 1D intrinsic orientation reversal, $K \rightarrow AK$
(per component)

2. 2D intrinsic orientation reversal $K \rightarrow SAK$
(per component)

3. 4D ambient orientation reversal $K \rightarrow K^*$