

# Simple ribbon fusions for links

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**Abstract.** We define and study special kinds of fusions, called simple ribbon fusions, for a link and a trivial link. A simple ribbon move, which we have previously worked on, is a simple ribbon fusion. Main theorem gives a sufficient condition for a knot obtained from the trivial knot by a simple fusion to be non-trivial. As a corollary, we show that the Kinoshita-Terasaka knot is non-trivial. This is a joint work with K.Kishimoto and T.Shibuya.