Satoh @ UIC: Fox colorings and cocycle invariants of roll-spun knots

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Satoh defined "roll-spinning". Question Does roll-spinning always give a ribbon 2-knot? IF so, What is its w-diagram? Satch: A roll-spun knot is ribbon IFF it is the unknot. Roll-Spinning: spin This in IRY, while at the same time spinning the long knot-diagram D using the "cutting open" of the 2n-stop "voll the basepoint along the knot":