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## Measurement of top quark properties in single top production

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Single top topologies are exploited for studies of top quark properties. This includes the first measurement of single top polarization in the t-channel production mode in pp collisions, which directly confirms the V-A nature of the  $tWb$  production vertex. W-helicity fractions are measured in the phase space sampled by a selection optimized for t-channel single top production, orthogonal to the  $t\bar{t}$  final states used in traditional measurements of these properties. Anomalous couplings of the top quark are also searched in t-channel single top production with a NN-based analysis.

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