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Let θ be an involutive automorphism of the symmetric group S_{2n} such that $\theta(s_i) = s_{2n-i}$, and $\iota(\theta)$ be the set of twisted identities in S_{2n} , i.e.

$$\iota(\theta) = \{\theta(\omega^{-1})\omega \mid \omega \in S_{2n}\}.$$

We construct a special matching on lower intervals $[e, \omega] \subset \iota(\theta)$ that helps us to compute the Kazhdan-Lusztig-Vogan polynomials. We prove by that that these polynomials are combinatorially invariant for lower intervals $[e, \omega]$. (Received July 18, 2016)