

## Double-winding Wilson loops towards flux tube interaction in $SU(N)$ lattice gauge theory

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We study “shifted” double-winding Wilson loop average in  $SU(N)$  lattice Yang-Mills theory by using both strong coupling expansions and numerical simulations.

We evaluate its average by changing the distance of a transverse direction.

From this result, we discuss how interactions between the two color flux tubes change, when the distance  $R$  is varied.

**Primary author:** KATO, Seikou (Oyama National College of Technology)

**Co-authors:** SHIBATA (KEK), Akihiro; KONDO (CHIBA UNIV.), Kei-Ichi

**Presenter:** KATO, Seikou (Oyama National College of Technology)

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