In ‘90s, it is claimed that the QCD with massless adjoint quark in 1+1-dimensions is confined, although the fermions cannot screen the Wilson line in the fundamental representation.

In this talk, we will see that the confinement can be explained from the topological line operators live in the theory.

In particular, non-invertible topological lines, which does not correspond to a symmetry, play a crucial role.

This talk is based on a ongoing work with Zohar Komargodski, Sahand Seifnashri, and Konstantinos Roumpedakis.