Contribution ID: 41

## Topological defect junctions in 4-dimensional pure Z2 gauge theory

Monday, 22 November 2021 15:45 (15 minutes)

Recently, there are many studies about expanding concepts of symmetries and its applications. One of the directions is to treat non-invertible objects as ""symmetry". We explicitly constructed a non-invertible defect of duality and a 1-form center symmetry defect in 4D lattice pure Z2 gauge theory. In this talk, we will describe the junction that occurs where the two defects overlap. The duality operator is non-invertible, so it is not necessary to be invariant under deformations that change the topology. We can make the topological relational closed for such deformations including 1-form center symmetry defects and junctions. This work is in collaboration with M.koide and S.Yamaguchi.

Presenter: NAGOYA, Yuta (Osaka U)

Session Classification: Short talks