## **TEP Seminar**

UCLA

Tuesday, October 17th @ 2pm Schwinger Lounge

## "Self-duality under gauging non-invertible symmetries in 2d CFT"

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**Abstract:** A quantum field theory is called self-dual under gauging certain symmetry if it is invariant under this gauging. Such theory generally admits a non-invertible duality defect and thus provides a non-trivial example of the non-invertible symmetries. While the self-duality under gauging invertible symmetries in 2d CFT has been thoroughly studied many years ago, self-duality under gauging non-invertible symmetry has not been largely explored. In this talk, I will first describe how to gauge non-invertible symmetries in 2d CFT and then report some examples of self-duality under gauging non-invertible symmetries. I will also discuss the fusion categories describing the corresponding duality defects.