

Daniel Robbins: Decomposition in orbifolds with discrete torsion

Saturday, May 22, 2021 3:00 PM (50 minutes)

Abstract: In the context of 2D CFT, decomposition occurs when we construct an orbifold of a theory by a group G that has a trivially-acting subgroup K . The resulting theory is a disjoint union of orbifolds by subgroups of the effective G/K symmetry. We'll describe how turning on discrete torsion in G affects the story, including opening the possibility that the disjoint union contains only a single term. We will also discuss some work in progress relating these ideas to quantum symmetries and anomalies.