

On discrete gauging and non-invertible selection rules

Wednesday, September 3, 2025 3:45 PM (2 hours)

We clarify selection rules of conjugacy classes of several finite discrete groups where we deal with both gauged and ungauged cases.

We find that the selection rules enjoy finite Abelian or non-Abelian discrete symmetries originating from the inner and/or outer automorphism of underlying discrete groups.

Since the selection rules of conjugacy classes do not obey conventional group-like selection rules, they open up new coupling selection rules of fields which are labeled by the conjugacy classes.

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