

Title: Anomalous symmetries of C^* -algebras

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Abstract: Given a discrete group G and a $U(1)$ -valued 3-cocycle w , an anomalous action on a C^* -algebra is a generalization of a cocycle action of G , where the cocycle equations "hold up to w ". We will describe some obstructions to the existence of anomalous actions on commutative C^* -algebras, and show for every $n > 1$ and every finite group G , every anomaly can be realized on the stabilization of a commutative C^* -algebra of continuous functions on some closed connected n -manifold M . We also show that although there are no anomalous symmetries of Roe C^* -algebras of coarse spaces, for every finite group G , every anomaly can be realized on the Roe corona of some bounded geometry metric space X with property A.