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Anomaly cancellation to all orders in chiral abelian gauge theories - A perturbative analysis based on (Bi)flow equations -

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We prove that the cancellation of the chiral anomaly in four-dimensional axial QED, as a consequence of a sum rule on the fermion charges, is valid to all orders in perturbation theory. The proof is based on analysing separately the fermionic and bosonic renormalization group flows.

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