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Newton-Cartan trace anomalies and non-relativistic local renormalization group

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Trace anomalies for non-relativistic Schrodinger theories coupled to a Newton-Cartan background metric will be discussed. If the causality condition is not imposed on the metric, an infinite number of anomaly terms is allowed and a type A anomaly is present. If we restrict to background metric sources which preserve causality, there exists just a type B anomaly. Moreover I will discuss work in progress on the implementation of Osborn's local renormalization group in non-relativistic theories.

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