

The generalized Lichnerowicz formula and analysis of Dirac operators

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Abstract. We study Dirac operators acting on sections of a Clifford module \mathcal{E} over a Riemannian manifold M . We prove the intrinsic decomposition formula for their square, which is the generalisation of the well-known formula due to Lichnerowicz [L]. This formula enables us to distinguish Dirac operators of simple type. For each Dirac operator of this natural class the local Atiyah-Singer index theorem holds. Furthermore, if M is compact and $\dim M = 2n \geq 4$, we derive an expression for the Wodzicki function $W_{\mathcal{D}}$, which is defined via the non-commutative residue on the space of all Dirac operators $\mathcal{D}(\mathcal{E})$. We calculate this function for certain Dirac operators explicitly. From a physical point of view this provides a method to derive gravity, resp. combined gravity/Yang-Mills actions from the Dirac operators in question.

Keywords: *Lichnerowicz formula, Dirac operator, Wodzicki function, gauge theory*

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‡ Supported by the European Communities, contract no. ERB 401GT 930224

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