

Worldline approach to higher spin fields and quantum gravity

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In the present talk we will present recent progresses in a first quantized approach to higher spin fields that makes use of $O(N)$ spinning particle models. In particular, by coupling the spinning particle to a curved background we are able to identify the first Seeley-DeWitt coefficients of the effective action of a class of higher spin fields on (A)dS backgrounds, in arbitrary even dimensions.

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