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Some indecomposable representations in physics

I will describe the construction and use of some indecomposable representations in physics. The Euclidean algebra e(2) - one generator of rotation in the 2D plane plus two generators of translations in this plane - will be used as an example of some concepts. How this kind of construction can be generalized to the more physically important case of the Poincare algebra - 6 generators of spacetime rotations plus 4 generators of spacetime translations - remains in part an open problem.