The massless Thirring de Sitter model

Ugo Moschella
Università dell'Insubrias
Italy

De Sitter QFT occupies an important place in contemporary cosmology. Unfortunately, perturbative calculations are plagued by a severe infrared problem and their meaning is controversial. One may wonder whether such difficulties could be artifacts of the adopted perturbation schemes. The study of two-dimensional soluble models such as the de Sitter - Thirring and/or Schwinger models may shed some new light to the above controversies. In my talk I will present some preliminary steps towards the solution of such models (work in collaboration with Henri Epstein). The answer to this question is already tricky and surprising.