Contribution Title:	A CONFORMALLY COVARIANT QUANTIZATION OF THE MAXWELL FIELD IN DE SITTER SPACETIME
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Invited speaker:	
YRS seminar:	YES

Inspired by the work of Bayen, Flato and Fronsdal on Minkowski spacetime, and Binegar, Fronsdal and Heidenreich on anti-de Sitter spacetime we quantize, em 'a la Gupta-Bleuler, the Maxwell field on de Sitter spacetime in a conformally invariant gauge. Following a geometric viewpoint set in previous articles the field is quantized while keeping transparent the action of the conformal group. This quantization is covariant in respect to $SO_0(2,4)$ and consequently under the de Sitter group too. This leads to a two-points function reaching a simple and compact form.

Work in collaboration with: E. Huguet, J. Renaud and S. Faci.