



EINLADUNG

as part of the joint relativity-mathematical physics seminar

zum Vortrag

von

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über

***„Obstructions to interacting higher-spin gauge theories
in three dimensions“***

Abstract:

Free higher-spin Fronsdal fields generalise Maxwell fields and linearised gravity to higher tensor fields. Whereas for spin-1 and spin-2 there are non-linear completions (e.g. Yang-Mills, gravity), no non-linear, gauge-invariant theory of Fronsdal fields is known. A systematic way to construct them is the Noether procedure in which a gauge invariant action is constructed in a perturbative expansion in powers of the fields.

In three space-time dimensions, there are strong obstructions to construct such an action leading to the conclusion that the interactions of the higher-spin gauge fields are completely fixed by the cubic vertices in the action.

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Seminarraum 218, 2. Stock

gez.: P. T. Chruściel, D. Fajman