

The talk summarized the following three papers, all published:

1) Causal Propagation of a Charged Spin $3/2$ Field in an External Electromagnetic Background.

Massimo Porrati, Rakibur Rahman, (CCPP, New York U.) . Jun 2009. (Published Jun 2009). 11pp.

Published in Phys.Rev.D80:025009, 2009.

e-Print: arXiv:0906.1432 [hep-th]

2) A Model Independent Ultraviolet Cutoff for Theories with Charged Massive Higher Spin Fields.

Massimo Porrati, (CCPP, New York U. & New York U. & Columbia U.) , Rakibur Rahman, (CCPP, New York U. & New York U.) . Dec 2008. 44pp.

Published in Nucl.Phys.B814:370-404, 2009.

e-Print: arXiv:0812.4254 [hep-th]

3) Electromagnetically Interacting Massive Spin-2 Field: Intrinsic Cutoff and Pathologies in External Fields.

Massimo Porrati, Rakibur Rahman, (CCPP, New York U. & New York U.) . Sep 2008. 4pp.

Contributed to 34th International Conference on High Energy Physics (ICHEP 2008), Philadelphia, Pennsylvania, 30 Jul - 5 Aug 2008.

e-Print: arXiv:0809.2807 [hep-th]