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Title: How are dressed photons driven by their spacelike momenta?

Abstract:

Since the spacelike momentum support of dressed photons means the compactness of energy support ($p_0 = 0$), its dual should be analytic on the complex upper half plane (of complex times) owing to Paley-Wiener theorem (according to L. Schwartz' formulation of the theorem). As one of its implications, the rapid dynamical processes of dressed photons can naturally be understood.