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Analyticity Properties of Scattering Amplitude in Higher Dimensional Field Theories

Friday 6 July 2018 09:30 (30 minutes)

I consider analyticity properties of scattering amplitude in higher dimensional field theories in the frame works of LSZ Axiomatic field theory. I prove existence of the Lehmann-Martin ellipse and prove generalized Jost-Lehmann-Dyson theorem

to achieve this goal. Here the basis for partial wave expansion is Gegenbaur polynomial. I also prove analog of the Froissart-Martin bound for such theories. J. Maharana, J. Math. Phys. (1917)

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