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Non-Abelian Schwinger Pair Production in Topologically Non-Trivial Background Fields

Wednesday, 5 December 2018 15:00 (20 minutes)

Schwinger pair production is examined in SU(2) (SL(2,C)) background fields through the worldline instanton method, whose non-Abelian equivalent stems from Wong's equations. The role of group complexification for pair production in non-Abelian fields is elucidated. The gauge group winding number is compared and contrasted with the worldline instanton winding number, related to number of produced pairs, for special topologically non-trivial background gauge configurations.

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Session Classification: Poster Session & Tea Break