

Nonlocal Field Theory and p -Adic Strings

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Abstract

We consider nonlocal field theory aspects of some p -adic strings. In particular, Lagrangians of p -adic open scalar strings, for single p as well as for collective primes p , are reviewed. They contain space-time nonlocality through the d'Alembertian \square in the argument of exponential and the Riemann zeta function.