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Excited mesons and confinement of quarks in 3+1d

Abstrakt

Solution of Schwinger-Dyson and Bethe-Salpeter Equation for excited and ground state mesons will be presented. Spectra of charmonia have been calculted conventionaly in the Euclidean spacetime, however the first hint from direct Minkowski space calculation will be presented. For pions and light flavoured scalars, related DSE solution for the quark propagator in Minkowski space will be presented for the first time. According to confinement, the quark propagator is a regular function in momentum space, which allows us to look for the BSE solution directly in the Minkowski momentum space. The Minkowski space solution for confining theories will be shown is not only numerically accessible, but also provides a reasonable description of the pseudoscalar meson system.

**Seminář se koná v pátek 28. 11. 2014 v 10:30 hod.
v seminární místnosti OTF ÚJF Řež**

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