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Rho mesons in strong abelian magnetic field in SU(3) lattice gauge theory

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We calculated correlators of vector and pseudoscalar currents in external strong abelian magnetic field in SU(3) gluodynamics.

The masses of charged and neutral mesons with various spins were calculated. We found out that the masses of mesons with zero spin $s=0$ decreased in increasing magnetic field, but the masses of Rho mesons with nonzero spin increased in the field.

Primary author: Ms LARINA, Olga (Institute of Theoretical and Experimental Physics)

Co-author: Ms LUSCHEVSKAYA, Elena (ITEP)

Presenter: Ms LARINA, Olga (Institute of Theoretical and Experimental Physics)

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