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Large N_c behavior of thermodynamical quantities from the (axial)vector meson extended PQM model

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As t'Hooft has already pointed out in 1974 a systematic expansion in $1/N_c$ can be very useful in the investigation of certain properties of QCD. This kind of expansion can be carried out also in effective field theories of QCD like in the linear sigma model. For instance it is expected that the pseudocritical temperature T_c scales with N_c^0 . This scaling and scaling of other interesting points of the chiral phase boundary such as the critical endpoint (CEP) can be investigated directly in the framework of the extended PQM model. During my talk I would like to address such questions.

Primary author: KOVACS, Peter (Wigner RCP)

Presenter: KOVACS, Peter (Wigner RCP)