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Gauge topology and heavy ion physics

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A review of interrelation between those two fields consists of two parts. One covers recent progress in magnetic scenario", which treats QGP as a dual plasma containing as quasiparticles not only quarks and gluons but also magnetic monopoles, dominating the ensemble near T_c . Recent account for monopoles contribution to jet quenching has solved the problem with azimuthal distribution of it. The second half describes recent works using semiclassical theory based on instanton-dyons". Studies of their ensemble explains deconfinement and chiral transitions in a different settings, with and without dynamical quarks.

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