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Confinement, Instanton-dyons and Monopoles

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Confinement in QCD vacuum has been explained in terms of monopoles, and chiral symmetry breaking in terms of instantons. At finite temperature the latter get split to instanton-dyons and their semiclassical theory was shown to describe well both

Phase transitions. And yet, their interrelation to monopoles remained unclear.

In this talk it will be explained, in terms of the so called Poisson duality.

Chiral symmetry breaking in terms of monopoles will also be explained.

Finally, a brief review of QGP as

a dual plasma containing as quasiparticles not only quarks and gluons but also magnetic monopoles, dominating the ensemble near T_c .

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