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Effects of magnetic fields on quark-antiquark interactions

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I will discuss some recent results obtained in the study of the strong quark-antiquark interaction in the presence of intense external magnetic fields. At zero temperature the external field induces anisotropies in the static quark potential, that affect both the spectrum and the decays of the heavy mesons. In the quark-gluon plasma phase the screening masses do not show significant anisotropies but display a non-trivial dependence on the magnetic field.

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