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Magnetoresponse: QCD vs. N=4 SYM

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The QCD pressure anisotropy in a uniform background magnetic field has been computed for a wide range of temperature and magnetic field. Surprisingly, it has been found to exhibit near universal behavior, depending predominately on a single dimensionless ratio, B/T^2. When appropriately compared with the corresponding quantity in maximally supersymmetric Yang-Mills (SYM) theory, remarkably good agreement is found.

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