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Magnetic susceptibility of QCD matter

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In this talk I will report on a new method to determine the magnetic susceptibility of thermal QCD matter on the lattice. The method employs current-current correlators evaluated at zero magnetic field, thereby circumventing problems of previous approaches related to magnetic flux quantization. Using the susceptibility, the equation of state at low magnetic fields is reconstructed and parameterized in a manner useful for model approaches. If time allows, a decomposition of the susceptibility into spin- and orbital angular momentum-related contributions will be discussed.

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