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Fluctuation phenomena in the precritical region

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The most interesting region of the QCD phase diagram lies close to the critical temperature at finite quark density. When the temperature is approaching the critical one from above the strong fluctuation regime sets in. We reveal and analyze the unusual behavior of the transport coefficients under the impact of fluctuations. These include the bulk viscosity, speed and attenuation of the sound, soft photon emissivity and some others.

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