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Aspects of Top-Down Holographic Large-N Thermal QCD at Finite Coupling

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From a UV-complete top-down holographic dual of large-N thermal QCD at finite gauge coupling, we discuss a variety of topics like obtaining a lattice-compatible T_c , conformal anomaly, lattice/PDG-compatible glueball/meson spectroscopy and glueball-to-meson decays, speed of sound, (lattice-compatible) shear viscosity(η)-to-entropy density ratio's variation with temperature, bulk viscosity(ζ) and a ζ/η bound inclusive of the non-conformal corrections appearing at NLO in N. Time permitting, I will discuss some Mathematical aspects relevant to the aforementioned results (G-structures, etc.).

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