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Shear and Bulk viscosity for the pure glue theory using an effective matrix model

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At nonzero temperature, the deconfining phase transition and the change in non-trivial holonomy can be analyzed using an effective matrix model. The shear, and bulk viscosities are computed in weak coupling but in non-zero holonomy. (shear viscosity/entropy density) decreases as we approach T_d , it is still well above the conformal bound. In contrast, (bulk viscosity/entropy density) is largest at T_d , comparable to (shear viscosity/entropy density), then falls off rapidly with increasing temperature and is negligible by $2T_d$.

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