

# Adjoint correlator(s) of Chromoelectric fields at NLO in Finite T

1. Motivation: Evolution of heavy quarkonium in QGP

## OQS + pNRQCD

2. Evolution quantified by two transport coefficients:

$\kappa$  and  $\gamma$

$$\kappa = \frac{g^2}{6N_c} \text{Re} \int_{-\infty}^{\infty} dt \langle \mathcal{T} E_i^a(t) U^{ab}(t, 0) E_i^b(0) \rangle \quad \gamma = \frac{g^2}{6N_c} \text{Im} \int_{-\infty}^{\infty} dt \langle \mathcal{T} E_i^a(t) U^{ab}(t, 0) E_i^b(0) \rangle$$

3.  $\kappa$  and  $\gamma$  depend on Chromoelectric correlators:

$$\langle EE \rangle_U \equiv \langle E_a^i(0) W^{ab}(0, \tau) E_b^i(\tau) \rangle \longrightarrow$$

