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## Static and non-static vector screening masses

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Thermal screening masses associated to the conserved vector current are calculated both in a weak-coupling and a lattice QCD approach. The inverse of a screening mass can be understood as the length scale over which an external electric field is screened in a QCD medium. The comparison of screening masses in the zero and non-zero Matsubara frequency sectors shows good agreement of the perturbative and the lattice results. Moreover, at  $T \approx 508\text{MeV}$  the lightest screening mass lies above the free result ( $2n\pi T$ ), in agreement with the  $\mathcal{O}(g^2)$  weak-coupling prediction, whereas this was not the case in a previous study at  $T \approx 254\text{MeV}$ .

**Primary authors:** Mr STEINBERG, Aman (Uni Mainz); Dr FRANCIS, Anthony (York University); Dr BRANDT, Bastian (University of Frankfurt); Prof. MEYER, Harvey B. (Uni Mainz); Mr ZAPP, Kai (Uni Mainz)

**Presenter:** Mr STEINBERG, Aman (Uni Mainz)

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