Conclusions

- important gauge-invariant subset of the full $\mathcal{O}({\alpha_s}^4)$ correction to e^+e^- annihilation into hadrons and the Higgs decay rate into hadrons is analytically evaluated through a new technique of $1/D$ expansion of coefficient functions

- The results discriminate strongly between different widely used estimates of the full result. As a result we expect:

  1. the often used prediction by Kataev and Starshenko for the complete $\mathcal{O}({\alpha_s}^4)$ contribution to the vector correlator will be close to reality;
  2. the relatively worser apparent convergence of the perturbative series for the scalar correlator as revealed by the calculation of $\mathcal{O}(\alpha_S^3)$ term /K.Ch (97)/ will persist in higher orders in agreement with FAC/PMS estimations by
     K.Ch., B. Kniehl and A. Sirlin (97)

- other topologies can be solved in the same way, given sufficient computer resources. Work in this direction is in progress....

soon or later we will have the full result!