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On α_s extraction from the e^+e^- to hadrons data below and above thresholds of charm quark production

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The QCD analysis of the available data of KEDR, BESIII and CLEO Collaborations for the e^+e^- to hadrons total cross-sections in different orders of perturbation theory is analysed. The existence of the tension between KEDR and BESIII data is emphasized with the preference to KEDR Collaboration data. The obtained values of QCD coupling constant are compared to other world average extractions. The material is based in part on the results of the recent work A.L. Kataev and K.Y. Todyshev, "Perturbative QCD fitting of KEDR and BESIII e^+e^- data for $R(s)$ and α_s determination," Natural Sci. Rev. **3** (2026), 100801 [arXiv:2603.29803 [hep-ph]].

Primary author(s): KATAEV, Andrei (INR RAS and JINR); TODYSHEV, Korneliy (BINP, Novosibirsk); ZENIN, Oleg (IHEP, Protvino)

Presenter(s): KATAEV, Andrei (INR RAS and JINR)

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