

List of Ten Best Publications

1. NNLO corrections to the total cross-section for Higgs boson production in hadron hadron collisions, V. Ravindran, J. Smith, W. L. van Neerven, *Nuclear Physics B665*, (2003), 325 .
2. Next-to-leading order QCD corrections to differential distributions of Higgs boson production in hadron-hadron collisions, V. Ravindran, J. Smith, and W.L. van Neerven, *Nuclear Physics B634*, (2002), 247.
3. A framework for Higgs characterisation, P. Artoisenet, P. de Aquino, F. Demartin, R. Frederix, S. Frixione, F. Maltoni, M.K. Mandal, P. Mathews, K. Mawatari, V. Ravindran, *JHEP 1311* (2013) 043.
4. Higher-order threshold effects to inclusive processes in QCD, V. Ravindran, *Nuclear Physics B752*,(2006),173 .
5. Next to leading order QCD corrections to the Drell-Yan cross section in models of TEV-Scale gravity, Prakash Mathews, V. Ravindran, K. Sridhar, W.L. van Neerven, *Nuclear Physics B713*, (2005) 333 .
6. Two Loop Corrections to Higgs Production, V. Ravindran, J. Smith, W.L. van Neerven, *Nuclear Physics B704*, (2005) 332.
7. Mellin moments of the next-to-next-to leading order coefficient functions for the Drell-Yan process and hadronic Higgs-boson production, J. Blümlein and V. Ravindran, *Nuclear Physics B716*, (2005), 128 .
8. Diphoton signals in theories with large extra dimensions to NLO QCD at hadron colliders, M. C. Kumar, Prakash Mathews, V. Ravindran and A. Tripathi, *Physics Letters B 672* (2009) 45.
9. On Sudakov and soft resummations in QCD, V. Ravindran, *Nuclear Physics B746*, (2006),58.
10. Drell-Yan Production at Threshold to Third Order in QCD, T. Ahmed, M. Mahakhud, N. Rana and V. Ravindran, *Phys. Rev. Lett. 113 no. 11*, (2014) 112002.

1. Next-to SV resummed rapidity distribution for Drell-Yan to NNLO+NNLLb
Ajjath, A.H. and Pooja Mukherjee, V. Ravindran, Aparna Sankar, Surabhi Tiwari,
e-Print: 2112.14094 [hep-ph]
2. Next to SV resummed prediction for pseudoscalar higgs boson production at NNLO+NNLLb
Ajjath, A.H. and Pooja Mukherjee, V. Ravindran, Aparna Sankar, Surabhi Tiwari,
e-Print: 2112.02341 [hep-ph]
3. Two-loop amplitudes for di-Higgs and di-pseudo-Higgs productions through quark annihilation in QCD
Taushif Ahmed, V. Ravindran, Aparna Sankar, Surabhi Tiwari
JHEP 01 (2022) 189 e-Print: 2110.11476 [hep-ph]
4. Resummed Higgs boson cross section at next-to SV to NNLO+NNLLb
Ajjath, A.H. and Pooja Mukherjee, V. Ravindran, Aparna Sankar, Surabhi Tiwari,
e-Print: 2109.12657 [hep-ph]
5. Next-to SV resummed Drell-Yan cross section beyond leading-logarithm
Ajjath, A.H. and Pooja Mukherjee, V. Ravindran, Aparna Sankar, Surabhi Tiwari,
Eur.Phys.J.C 82 (2022) 3, 234 e-Print: 2107.09717 [hep-ph]
6. Rapidity distribution at soft-virtual and beyond for nnn-colorless particles to N4LO in QCD
Taushif Ahmed, A.H. Ajjath, Pooja Mukherjee, V. Ravindran, Aparna Sankar,
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7. Soft-virtual correction and threshold resummation for n -colorless particles to fourth order in QCD:
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8. On next to soft corrections for Drell-Yan and Higgs boson rapidity distributions beyond N³LO
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9. On next to soft threshold corrections to DIS and SIA processes
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10. On next to soft corrections to Drell-Yan and Higgs Boson productions,
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arXiv:2001.11377 [hep-ph].
11. Resummed Drell-Yan cross-section at N³LL,
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12. Infrared structure of $SU(N) \times U(1)$ gauge theory to three loops,
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13. Infrared structure of $\mathcal{N} = 4$ SYM and leading transcendentality principle in gauge theory Taushif Ahmed, Pulak Banerjee, Amlan Chakraborty, Prasanna K Dhani, V. Ravindran, and Satyajit Seth
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14. Two-Loop QCD Helicity Amplitudes for Higgs Production Associated with a Vector Boson through Bottom Quark Annihilation Taushif Ahmed, A.H. Ajjath, Long Chen, Prasanna K. Dhani, Pooja Mukherjee, and V. Ravindran
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15. Form factors with two-operator insertion and violation of transcendentality principles Taushif Ahmed, Pulak Banerjee, Amlan Chakraborty, Prasanna K Dhani, V. Ravindran
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16. Polarised Amplitudes and Soft-Virtual Cross Sections for $b\bar{b} \rightarrow ZH$ at NNLO in QCD Taushif Ahmed, A.H. Ajjath, Long Chen, Prasanna K. Dhani, Pooja Mukherjee, and V. Ravindran
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17. Two loop QCD amplitudes for di-pseudo scalar production in gluon fusion
Arunima Bhattacharya, Maguni Mahakhud,Prakash Mathews and V. Ravindran
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18. Resummed prediction for Higgs boson production through $b\bar{b}$ annihilation at N^3LO+N^3LL
A. A. H, A. Chakraborty, G. Das, P. Mukherjee and V. Ravindran,
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19. Two-loop QCD corrections to $b + \bar{b} \rightarrow H + H$ amplitude
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21. Second order splitting functions and infrared safe cross sections in $\mathcal{N} = 4$ SYM theory
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