Publication List

Philipp Alexander Kreer

Particle Physics

[1] P. A. Kreer and S. Weinzierl. "H graph with unequal masses in quantum field theory". In: *Physical Revue D* 110.7 (2024), p. 076018. DOI: 10.1103/PhysRevD.110.076018. arXiv: 2408.10778 [hep-ph].

[2] F. Buccioni, P. A. Kreer, X. Liu, and L. Tancredi. "One loop QCD corrections to gg → t$\bar{\text{t}}$H at $\mathcal{O}\left(\varepsilon^2\right)$". In: *Journal of High Energy Physics* 03 (2024), p. 093. DOI: 10.1007/JHEP03(2024)093. arXiv: 2312.10015 [hep-ph].

[3] P. A. Kreer, R. Runkel, and S. Weinzierl. "Feynman integrals for binary systems of black holes". In: *SciPost Phys. Proc.* 7 (2022), p. 023. DOI: 10.21468/SciPostPhysProc.7.023. arXiv: 2110.15654 [hep-th].

[4] P. A. Kreer and S. Weinzierl. "The H-graph with equal masses in terms of multiple polylogarithms". In: *Physical Letters B* 819 (2021), p. 136405. DOI: 10.1016/j.physletb.2021.136405. arXiv: 2104.07488 [hep-ph].

Note:

Authors in alphabetic order (particle physics convention); I am the first author of each paper. Last author: [1, 3, 4] Stefan Weinzierl, [2] Lorenzo Tancredi

Science of Deep Learning

[5] C. Tice*, P. A. Kreer*, N. Helm-Burger, P. S. Shahani, F. Ryzhenkov, J. Haimes, F. Hofstätter, and T. van der Weij. "Sandbag Detection through Noise Injection". In: *Neural Informational Processing Systems (NeurIPS)* (Dec. 2024). Accepted for publication.

Preprint

[6] C. Tice, P. A. Kreer, F. Ryzhenkov, N. Helm-Burger, and P. S. Shahani. "Sandbag Detection through Model Degradation". In: *Apart Research* (July 2024). Research submission to the Deception Detection Hackathon: Preventing AI deception.

Thesis

[7] P. A. Kreer. "Calculation of Feynman Integrals for Black Holes". Masters Thesis. Johannes Gutenberg Universität in Mainz, 2021.

[8] P. A. Kreer. "Maximal Cuts in Baikov Representation". Bachelors Thesis. Johannes Gutenberg Universität in Mainz, 2019.