# Publication List

### Philipp Alexander Kreer

## Particle Physics & Gravitational Wave Physics

- [1] P. A. Kreer and S. Weinzierl. "H graph with unequal masses in quantum field theory". In: *Physical Revue D* 110.7 (2024). Impact Factor **4.6**, **Ranked under top 10 journals**, 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 → t̄tH at O(ε²)". In: Journal of High Energy Physics 03 (2024). Impact Factor 5, Ranked under top 5 journals, 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). Impact Factor **4.6**, **Ranked under top 10 journals**, 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 [1–4]. 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. "Noise Injection Revels Hidden Capabilities of Sandbagging Language Models". In: Neural Informational Processing Systems (NeurIPS), SATA and SoLaR workshop. (Dec. 2024). Impact Factor 23.27, Ranked under top 3 journals. arXiv: 2412.01784 [cs.AI].

#### Note:

The star denotes equal contributions.

## **Preprint**

- [6] M. Becchetti, M. Delto, S. Ditsch, P. A. Kreer, M. Pozzoli, and L. Tancredi. "One-Loop QCD Corrections to  $\bar{u}d \to t\bar{t}W$  at  $\mathcal{O}(\varepsilon^2)$ ". In: (). Prepared for publication in JHEP, expected publication: 10. February 2025.
- [7] 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

- [8] P. A. Kreer. "Calculation of Feynman Integrals for Black Holes". Masters Thesis. Johannes Gutenberg Universität in Mainz, 2021.
- [9] P. A. Kreer. "Maximal Cuts in Baikov Representation". Bachelors Thesis. Johannes Gutenberg Universität in Mainz, 2019.