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HOMEWORK 1

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1 Conformal invariance of the Maxwell action for $D = 4$

- (a)
- (b)

2 Axial anomaly

- (a)
- (b)
- (c)
- (d)

3 OPE coefficients from three point functions

- (a)
- (b)
- (c)
- (d)

4 Acknowledgement

References

- [1] *Frobenius inner product*. https://en.wikipedia.org/wiki/Frobenius_inner_product. Accessed: 2024-03-14.
- [2] *Schmidt decomposition*. https://en.wikipedia.org/wiki/Schmidt_decomposition. Accessed: 2024-03-14.