

# Chapter 11: Ward Identities and Gauge Invariance in Amplitudes

This section is already in the book plan, but it has not been written fully yet. The book owner can press Generate section to write this part with the language model connected to TheoryTrace.

Section plan:

Proves the Ward identity at tree level and beyond, shows how gauge invariance constrains physical amplitudes, and teaches practical checks that prevent unphysical polarization and algebraic errors.

## References

References will be added when this section is generated.

## Document information

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