

THE JONES POLYNOMIAL AND QFT

- PART II -

STRINGS & BRAIDED CATEGORIES: THE JONES POLYNOMIAL REVEALED

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The second talk of the series, is a natural continuation of the first, in which we studied Feynman diagrams, in the algebraic direction. We will briefly discuss monoidal categories, moving deeply in the understanding of strings and braiding.

We will then be able to finally unlock the secrets of the Jones polynomial, discovering its sophisticated algebraic roots.

Although each part is developed with the aim to be self-contained, a strong background in algebra is recommended.

References

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- [MA] Artin, M., Algebra, orig. ed. Prentice-Hall Inc., 1991, ristampa italiana 2009, Bollati Boringhieri editore s.r.l. Torino.