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Some discrete-flavoured approaches to Dyson-Schwinger equations

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I will discuss two recent ideas on how to better understand the underlying structure of Dyson-Schwinger equations in quantum field theory. These approaches use primarily combinatorial tools; classes of rooted trees in the first case and chord diagrams in the second case. The mathematics is explicit and approachable.

Author: YEATS, Karen (Simon Fraser University)

Presenter: YEATS, Karen (Simon Fraser University)

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