

## Explicit computations for spin chains and the remarkable operator Co-derivative

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In this talk, we are going to show the power of the operator Co-derivative in converting complicated computations into combinatorial relation. To do so, I will consider the twisted spin chain with the underlying Lie algebra  $\mathfrak{gl}(n)$ , and show how to obtain the  $(T,Q)$  operators using the D-diagrams that arise from using the Co-derivative on the generating series of the characters. Then, we will consider the case when the underlying Lie algebra is  $\mathfrak{so}(2n)$ , show how the operator Co-derivative changes in this case and find the  $(T,Q)$  operators in the symmetric case.

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