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Integral formulae of the canonical correlation functions for the one dimensional transverse Ising model

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***Highlights (for review)**

Highlights:

Integral formulae of the canonical correlations for the Transverse Ising chain are found.

The derivetion by ST-method from classical Ising model is new and useful.

A time-independent term of a dynamical correlation is found newly as a consequence of our formula.

Morita's sum rule and its extention for 2-dim Ising model is derived by using the Tansfer matrix.