Mathematical Physics

Functional relations for the six vertex model with domain wall boundary conditions

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(Submitted on 8 Feb 2010)

In this work we demonstrate that the Yang-Baxter algebra can also be employed in order to derive a functional relation for the partition function of the six vertex model with domain wall boundary conditions. The homogeneous limit is studied for small lattices and the properties determining the partition function are also discussed.

Comments:	16 pages
Subjects:	**Mathematical Physics (math-ph)**; Statistical Mechanics (cond-mat.stat-mech); Exactly Solvable and Integrable Systems (nlin.SI)
Report number:	AEI - 2010 - 018
Cite as:	**arXiv:1002.1623v1 [math-ph]**

Submission history

From: Wellington Galleas [view email]
[v1] Mon, 8 Feb 2010 15:12:05 GMT (42kb)

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