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# Graphical representations of Ising and Potts models

[Jakob E. Björnberg](#)

*(Submitted on 11 Nov 2010)*

We  
study  
graphical  
representations  
for two  
related  
models.

The first  
model is  
the  
transverse  
field  
quantum  
Ising  
model,  
an  
extension  
of the  
original  
Ising  
model  
which  
was  
introduced  
by Lieb,  
Schultz  
and  
Mattis in