

Accepted Manuscript

Kinetic phase transitions for the semi-infinite Ising model with bulk $S = 1$ and a free surface $\sigma = \frac{1}{2}$ under an oscillating magnetic field

S. Sabri, A.G. El Hachimi, M. El Yadari, A. Benyoussef, A. El Kenz



PII: S0378-4371(18)30682-4
DOI: <https://doi.org/10.1016/j.physa.2018.05.130>
Reference: PHYSA 19670

To appear in: *Physica A*

Received date: 8 September 2015

Revised date: 6 May 2018

Please cite this article as: S. Sabri, A.G. El Hachimi, M. El Yadari, A. Benyoussef, A. El Kenz, Kinetic phase transitions for the semi-infinite Ising model with bulk $S = 1$ and a free surface $\sigma = \frac{1}{2}$ under an oscillating magnetic field, *Physica A* (2018), <https://doi.org/10.1016/j.physa.2018.05.130>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights (for review)

- Kinetic phase transitions for the semi-infinite Ising model with bulk $S = 1$ and free surface $\sigma = \frac{1}{2}$ under an oscillating magnetic field is studied.
- Dynamical phases appears (BP, SF), completely ordered (BF, SF) dynamical phase, and disordered phase (BP, SP) that strongly depend on interaction parameters.
- The system exhibits dynamical tricritical phenomenon, dynamical first and second order phase transitions.
- The system exhibits fixed points and limit cycles in the phase space trajectories.

Download English Version:

<https://daneshyari.com/en/article/7374507>

Download Persian Version:

<https://daneshyari.com/article/7374507>

[Daneshyari.com](https://daneshyari.com)