



About the Mechanism of Geyser Eruption

[Andrei Nechayev](#)

(Submitted on 6 Apr 2012)

Essentially new physical mechanism of geyser eruption based on instability in "water-vapor" system is proposed. Necessary and sufficient conditions of eruptions are received. For group of Kamchatka geysers a good accordance of theoretical model with empirical observations is shown.

Comments: 13 pages, 5 figures

Subjects: **Geophysics (physics.geo-ph)**; Fluid Dynamics (physics.flu-dyn)

Cite as: [arXiv:1204.1560 \[physics.geo-ph\]](#)
(or [arXiv:1204.1560v1 \[physics.geo-ph\]](#) for this version)

Submission history

From: Andrei Nechayev [[view email](#)]

[v1] Fri, 6 Apr 2012 20:43:39 GMT (561kb)

[Which authors of this paper are endorsers?](#)

Link back to: [arXiv](#), [form interface](#), [contact](#).

Download:

- [PDF only](#)

Current browse context:

[physics.geo-ph](#)

[< prev](#) | [next >](#)

[new](#) | [recent](#) | [1204](#)

Change to browse by:

[physics](#)

[physics.flu-dyn](#)

References & Citations

- [NASA ADS](#)

Bookmark([what is this?](#))

