

Comment on "Superfluid turbulence from quantum Kelvin wave to classical Kolmogorov cascade". [[arXiv:0905.0159v1](#)]

Giorgio Krstulovic, Marc Brachet

(Submitted on 9 Nov 2009 (v1), last revised 17 Nov 2009 (this version, v2))

In this comment we point out that the high wavenumber k^{-3} power-law observed by the PRL, [v. 103, 084501 (2009) by J. Yopez, G. Vahala, L.Vahala and M. Soe, [arXiv:0905.0159](#)] is an artifact stemming from the definition of the kinetic energy spectra and is thus not directly related to a Kelvin wave cascade. We also clarify a confusion about the wavenumber intervals on which Kolmogorov and Kelvin wave cascades are expected to take place.

Comments: submitted to PRL

Subjects: **Chaotic Dynamics (nlin.CD)**

Cite as: [arXiv:0911.1749v2](#) [nlin.CD]

Submission history

From: Giorgio Krstulovic [[view email](#)]

[v1] Mon, 9 Nov 2009 19:07:02 GMT (3kb)

[v2] Tue, 17 Nov 2009 18:15:01 GMT (3kb)

Which authors of this paper are endorsers?

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

Download:

- [PDF](#)
- [PostScript](#)
- [Other formats](#)

Current browse context:

nlin.CD

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

[new](#) | [recent](#) | [0911](#)

Change to browse by:

[nlin](#)

References & Citations

- [CiteBase](#)

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

[CiteULike logo](#)

[Connotea logo](#)

[BibSonomy logo](#)

[Mendeley logo](#)

[Facebook logo](#)

[del.icio.us logo](#)

[Digg logo](#)

[Reddit logo](#)