

# Type the Title of your Paper Here (Initial Capital)

Shigenao Maruyama<sup>1</sup>, Second Author<sup>1</sup> and Third Author<sup>2</sup>

<sup>1</sup> Institute of Fluid Science, Tohoku University  
Sendai 980–8577, Japan

<sup>2</sup> Affiliation  
Street, City, State, Zip-code, Country

## ABSTRACT

Abstract should be typed within five lines. All papers published in the proceedings of ICFD2018 must be formatted in accordance with these instructions. This document is a T<sub>E</sub>X sample file.

## 1. Introduction

This is a T<sub>E</sub>X sample file for preparing your manuscript. It uses `icfd2018paper.cls` which requires `article.cls`. These files are NOT supported; use it on your own responsibility.

The instructions below must be followed by all papers. The length of a paper should be two pages. The paper should include:

- Title (see the format above)
- Name(s) of author(s) and affiliation(s)
- Abstract
- Main text including table(s) and figure(s)
- E-mail address of the corresponding author
- Conclusions
- Acknowledgements (if applicable)
- References
- Appendices (if applicable)

## 2. Method

The main text following the abstract is composed of two columns. Each column must be 8 cm width and justified. The spacing between the columns must be 1 cm. The left and right margins in a page must be 2 cm, the top and the bottom margins must be 2.5 cm.

The manuscript is to be typed using “Times New Roman” (or equivalent). The font size for the title is 12 pt. All the other parts of the text are typed using 10 pt. The title is boldface and centered. The spacing between the lines is one (single spacing). Leave one blank line between the centered title and the centered name(s) of the author(s). Underline the Presenting Author. Follow immediately below, and on a separate line, with his or her (their), affiliation(s). Leave one blank line before starting the text.

Equations are numbered and typed in the appropriate place in the text. Equation number should be flush right. The size of the character is similar to that used for the text (Times 10 pt). The equations are typed as usual

$$\Sigma = -\omega + m + \mu k, \quad \eta = (4 - \Sigma^2)^{1/2} \left| \frac{k}{\Sigma} \right|, \quad (1)$$

Corresponding author: Second Author  
E-mail address: `second.author@ifs.tohoku.ac.jp`

$$\text{wave energy} = \omega \frac{\partial D}{\partial \omega}(\omega, k) |E(\omega, k)|^2, \quad (2)$$

$$\begin{aligned} \frac{E}{2} &= \omega \int_0^1 [(\omega - m - \mu k) |\xi|^2 + 2\xi_r^R \xi_\theta^I] r dr \\ &+ \omega \int_1^\infty \left[ \left( \omega - \frac{m}{r^2} \right) |\xi|^2 + \frac{2}{r^2} \xi_r^R \xi_\theta^I \right] r dr. \end{aligned} \quad (3)$$

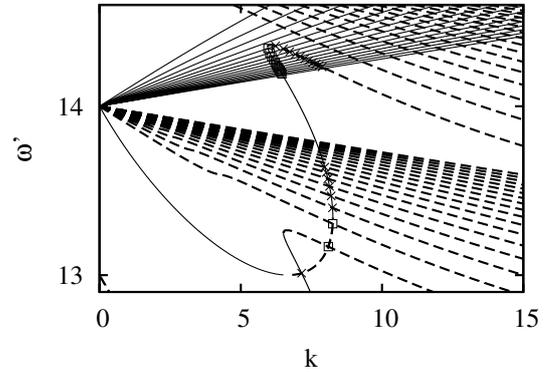


Fig. 1 Dispersion curves.  $m = 14$  and  $15$ .  $k = 7.5$ ,  $\mu = 0.3$ . Solid lines: positive energy, dashed lines: negative energy.

The figures are reduced to fit within the margins of each column. Symbols and legends should be large enough to be readable. Tables and figures are numbered in the order they appear in the text.

The list of references must be placed at the end of the text. The references must be numbered in order of text citation and abbreviated in an appropriate form [1, 2], using the names of all authors preceded by initials [3].

A manuscript that does not meet these instructions will be returned to the author.

## 3. Results and Discussion

Once after you have completed your manuscript in T<sub>E</sub>X format, you must create a PDF file. When you use T<sub>E</sub>X, **Only the PDF file** you prepare should be submitted from the ICFD web page. (If you use Word, both the Word file and PDF file should be submitted.)

Proceedings will be distributed to the conference participants with USB flash memory. Color figures are acceptable.

#### 4. Concluding Remarks

Due date of the paper submission is August 1, 2018.

#### References

- [1] Y. Hattori and Y. Fukumoto, *J. Fluid Mech.* **738** (2014), 222–249.
- [2] R. S. Loss, S. B. Williams, *Proc. 9th Asia-Pacific Conf. Combust.*, (2013), 809.
- [3] Authors, *Proceedings /Book / Journal*, Volume, (publishing year), page number.