

## Instruction for the preparation of a camera-ready abstract

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### Abstract

This document provides the detailed instructions of how to prepare an abstract for the IUTAM Symposium on “Motile cells in complex environments”. The abstract will be published as Symposium proceedings in electronic form. The abstract including figures, tables, and references should not be longer than 2 pages. The abstracts will be uploaded in Portable Document Format (PDF). The authors are responsible for converting their abstract to PDF. Abstracts that do not meet the formal requirements listed in the instructions or contain inappropriate content will not be uploaded. Abstracts that meet the formal requirements listed in the instructions will be uploaded without any changes. If you are not clear about any of the instructions or would like to get further information on formatting, please contact the Symposium chairman at [marchioli@uniud.it](mailto:marchioli@uniud.it).

*Keywords: IUTAM Symposium, instructions, formatting, abstract*

### 1. Introduction

This documents provides the instructions to write an abstract for the IUTAM Symposium on “Motile cells in complex environments”. The abstract is expected to be written in grammatically correct and easily readable English. Authors who are not proficient in English are kindly advised to take the help of a linguist before typing. The abstract should be thoroughly checked for spelling mistakes.

### 2. Format

The abstract must be written on paper size A4 (21.0 cm/29.7 cm). Text should be produced within the following dimensions: each column 8.2 cm wide with 0.6 cm middle margin, total width 17.0 cm and a maximum length of 23.5 cm. Margins must be equal on both sides and equal on the top and bottom. Keep the stipulated length apart from the following two exceptions: (i) do not begin a new section directly at the bottom of a page, but transfer the heading to the top of the next column; (ii) you may exceed the length of the text area by one line only in order to complete a section of text or paragraph.

The usual text must be written with letter size 9 pt and single spacing. Unless stated otherwise, the font used must be Times Roman. The words figure, reference and equation have to be abbreviated as Fig. 1, Eqn (2) and Ref. [3], unless they appear as the first word of a sentence. In this case they should be typed in full as Figure 1, Equation (2) and Reference [3]. When a problem is studied in a number of references, one can also refer to them by recalling [1,2,3]. Please be consistent in the use of punctuation, figures, capital letters and abbreviations, and in nomenclature and symbols. The author should take much care to make the paper most communicative, clearly

demonstrating the novelty of their idea, by making effective use of the space available.

#### 2.1. Title

The title should be written in 12 pt boldface letters and centered. It begins 3.5 cm below the upper edge of the sheet. The title should be short and adequately reflect the paper contents. If a title is more than one line long, the lines of the title should be in single spacing.

#### 2.2. Author

The author’s name should include first name, middle initials (if any) and surname. The name(s) should be centered and 9 pt boldface letters should be used. The single space should be between the last text line of the title and the first text line of the author’s name.

#### 2.3. Affiliation

The author’s affiliation should be written in 9 pt italic letters and centered. In case of many affiliations they may be numbered consecutively.

#### 2.4. Abstract

The abstract (max. 10 lines) and keyword section should have horizontal lines at the top and at the bottom.

#### 2.5. Keywords

Keywords should be written in 9 pt italic letters.

#### 2.6. Headings of sections

The headings should be written left aligned. The main headings should be written in 9 pt boldface letters and the secondary headings in 9 pt italic letters.

\*Footnotes may appear on the first page only to indicate research grant, sponsoring agency, etc. These should not be numbered but referred to by symbols, e.g. \*,+. The footnote text may be produced in a small font.

Table 1: Comparison of analytical and numerical results

	Settling Velocity		Deposition Coefficient	
	Numerical	Analytical	Numerical	Analytical
Node A	0.101	0.100	2.26E-4	2.20E-4
Node B	0.202	0.200	1.13E-3	1.15E-3
Node C	0.403	0.400	5.66E-2	5.75E-2

### 2.7. Spacing

We recommend the use of single line spacing. However, when typing complicated mathematical text the space between text lines may be increased to prevent sub- and super-script fonts overlapping one another and making your printed matter illegible. If you are using a desktop publishing program ensure that your ‘auto-adjust’ for interline spacing is suitably set to prevent overlapping but without leaving too much space.

## 3. Tables and figures

Tables and figures should be arranged within the text and placed close to their text reference. They should have a self-contained caption and be positioned in flush-left alignment with the text margin. One single line should separate a table or a figure from the caption.

### 3.1. Tables

Tables should be presented in the form shown in Table 1. Their layout should be consistent throughout. If tables do not fit into one column they may be placed across both columns in which case place them at the top or at the bottom of a page.

Horizontal lines should be placed above and below table headings, above the subheadings and at the top of the table above any notes. Vertical lines should be avoided. The table name should appear above it. Captions should be numbered sequentially starting from 1, i.e. Table 1: Numerical results.

### 3.2. Figures

All figures should be clearly displayed by leaving at least single line of spacing above and below them. When placing a figure at the top of a page, the top of the figure should be at the same level as the bottom of the first text line of other column.

All notations and lettering should be no less than 2 mm high. The use of heavy black, bold lettering should be avoided, as this will look unpleasantly dark when printed.

The name of a figure should appear below it. All figures must be numbered sequentially starting with number 1, e.g. Figure 1: Plot of a beam eigenfunction  $u=u(x)$ . Please ensure that all spelling and annotations (numbers, letters, symbols and captions) conform to their usage in the text. Colour figures cannot be included in their original form and will be reproduced in black and white.

## 4. Equations

Equations should be placed flush-left with the text margin and should be preceded and followed by a 3 pt vertical space.

$$Ax^2 + Bx + C = 0 \quad (1)$$

In case of multiline formula we can write

$$I_{\alpha+\beta}^j = \frac{-3}{ac} \left( \sqrt{(a+b)^2 + c^2} + \sqrt{(2a-b)^2 + c^2} + \sqrt{(2\beta_i - \alpha)^2 + c_j^2} \right) \quad (2)$$

If the formulae are numbered, make sure that they are numbered consecutively. Place the numbers in parentheses flush with the right-hand margin of the column and level with the last line of the equation. Please ensure that subscripts and superscripts are clearly legible. The meaning of the variables used should be given or clear from the context.

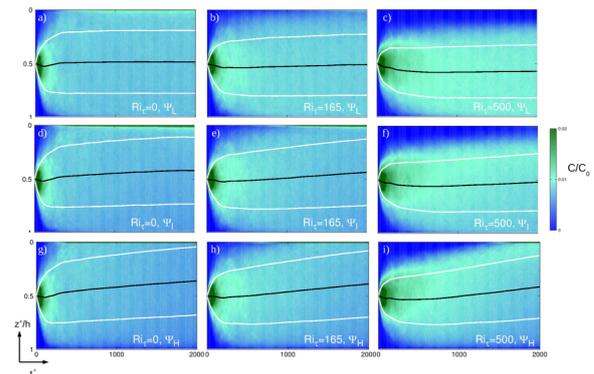


Figure 1: Figure caption.

## 5. Page numbers

Pages of the abstract must not be numbered, they will be numbered consecutively later by the editors.

## References

- [1] Moran, B., Hoover, W.G. and Bestiale, S., Diffusion in a periodic Lorentz gas, *J. Stat. Phys.*, 48, pp. 709-726, 1997.
- [2] Marchioli, C., and Soldati, A., Reynolds number scaling of particle preferential concentration in turbulent channel flow, *Proceedings of the 6th International Conference on Multiphase Flow*, Sommerfeld M. Ed., Martin Luther Universitat, Halle-Wittenberg, Vol. 1, pp. 1-6, 2007.
- [3] Batchelor, G.K., *An Introduction to Fluid Dynamics*, first ed., Cambridge Mathematical Library, Cambridge, 1967.

The references given above are examples of the following types: 1) paper in a journal, 2) paper in a conference proceedings, 3) book. References should be collected at the end of your paper in alphabetical order according to the numeric sequential system. Each item in the list of references should be referred to in the text and quoted with numbers enclosed in brackets [1], [2], [3]. The references should be set in the following order: author’s surname, initials, title, publication, volume, page range, year.