

Guidelines for the preparation and submission of the abstract for the IUTAM Symposium to be held in Venice 2016

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Summary

The summary should not exceed 150 words. Here we give instructions for the preparation and submission of the abstract.

1 Guidelines for abstract preparation and submission

Abstracts should be prepared according to these guidelines:

- The abstract should be prepared by using this template file and standard L^AT_EX. Equations should be numbered on the right. Colour figures are welcomed, but they will be reproduced in black & white in the printed book of abstracts. A list of key references, complete with titles, should be added at the end.
- The maximum total length of the abstract is limited to 2 printed pages.
- Before submission please remember to compile the T_EX file twice to make sure that all references to figures and bibliography are correctly displayed.
- The abstract should be submitted as a single PDF file, with filename identified by the presenting author in capitals (e.g. **AUTHOR.pdf**).
- The abstract should be submitted by email by the presenting author in attachment to an empty message (no text, please) with subject the filename of the abstract (e.g. “**AUTHOR.pdf**”) and sent to:

IUTAM2016Venice@gmail.com

Remember to include the pdf file in the attachment.

- The deadline for submission of abstracts is **December 31, 2015**.
- All abstracts will be subject to refereeing.
- The decision will be notified by **February 15, 2016**.
- All accepted abstracts will be included in the book of abstracts that will be posted on the website of this Symposium. A printed copy of the book of abstracts will be distributed to all participants.

2 Aims and scope of this IUTAM Symposium

This IUTAM Symposium, entitled *Helicity, Structures and Singularity in Fluids and Plasma Dynamics*, wants to assess the central rôle played by helicity [1]-[3] and outline the emerging challenges, by focusing on the following main topics:

- **Helicity theory and applications:**
 - kinetic helicity and turbulence
 - magnetic helicity in astrophysical flows
 - dynamo theory
- **Conservation of topology:**
 - energy relaxation methods
 - coherent structures and physical knots
- **Change of topology:**
 - slow viscous flows
 - reconnection and finite time singularity

3 Conference venue

Palazzo Franchetti (shown in Figure 1), home of the Istituto Veneto [4], will host this IUTAM Symposium. For more information and instructions on how to reach the conference site please visit the dedicated website of this Symposium.



Fig. 1: Palazzo Franchetti, Istituto Veneto (Venice).

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References

- [1] Moffatt, H.K. (1969) The degree of knottedness of tangled vortex lines. *J. Fluid Mech.* 1969 **35**, 117–129.
- [2] Arnold, V.I. & Khesin, B.A. (1998) *Topological Methods in Hydrodynamics*. Applied Mathematical Sciences **125**, Springer-Verlag, Berlin.
- [3] Ricca, R.L. (2009) Structural complexity and dynamical systems. In *Lectures on Topological Fluid Mechanics* (ed. R.L. Ricca), pp. 169–188. Springer-CIME Lecture Notes in Mathematics **1973**. Springer-Verlag.
- [4] Istituto Veneto: <http://www.istitutoveneto.it>