

### Cover Page

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22nd International Conference on Atomic Processes in Plasmas (APiP2025)  
and

1st NIFS Conference on Atomic and Molecular Processes in Plasmas

Presentation Number:	<b>xxx (I-2, O-3, P-4, etc.)</b>
Paper Title:	<b>A Sample T<sub>E</sub>X Manuscript for Proceedings Preparation</b>
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# A Sample T<sub>E</sub>X Manuscript for Proceedings Preparation

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The abstract should be within the 200-word limit. It should be an explicit summary of the paper that states the problem, the methods used, and the major results, conclusions and sufficient references. It should also contain relevant key words that would allow it to be found in a cursory computerized search.

**Keywords:** Five to ten keywords or phrases should be given. Except in special cases, type all keywords in lower-case letters separated by commas

## 1 Introduction

The 22nd International Conference on Atomic Processes in Plasmas (APiP 2025) is organized in cooperation with the International Atomic Energy Agency (IAEA). Since 1977, the APiP conference has focused on atomic processes that are involved in the study of various plasmas over a wide range of densities and temperatures (eV to a few keVs). The topics cover Astrophysical plasmas; Fundamental Data and Modeling; High Energy Density Plasmas; Low Temperature and Industrial Plasmas; Magnetic-Fusion Plasmas; Measurements of Atomic Processes; Powerful Light Sources (XFEL, etc.); Small-scale Plasmas (table-top lasers, EBITs, etc.); Warm Dense Matter.

This time the NIFS conference is jointly held with the APiP conference and various atomic and molecular processes in fusion plasmas are focused to discuss in particular. We hope to bring researchers in fusion plasmas to this conference to join the discussion and find new sights on plasma physics.

## 2 Journal Publication

Original articles related to the conference topics, are encouraged to be submitted to Plasma and Fusion Research (PFR) which is an electronic journal published by the Japan Society of Plasma Science and Nuclear Fusion Research. The papers will go through a complete peer review process. Only the papers reporting original and previously unpublished work will be accepted and published as “Regular” articles in the academic journal, PFR. In general, a publication fee is required (30,000 JPY per paper + 10,000 JPY per page). However, we will waive the fee for papers up to 4 pages in length for approximately 15 submissions. The fee waiver will be granted on a first-come, first-served basis, with priority given to invited and oral speakers. Sample format for the manuscript is available on the APiP2025 Web site.

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Note: The first author of the publication paper is expected to be the same as the first author on the presentation at the conference.

## 3 Paper preparation

Paper size must be A4 (21.0 cm × 29.7 cm). Authors using L<sup>A</sup>T<sub>E</sub>X should use the pfr style file provided by the program committee of APiP2025.

Text should be typeset in Times. The title should be in Times Bold. These fonts can be accessed by using either the standard times, mathptmx or recent txfonts package, as in

```
\documentclass
[a4paper,twocolumn,fleqn]{article}
\usepackage{amsmath} % optional
\usepackage{txfonts} % or times
\usepackage[pdftex]{graphicx} % optional
\usepackage{pfr_APIP2025}
\begin{document}
...
```

The default Computer Modern fonts may be used as a last resort.

The document should be submitted in PDF format (or PostScript format). Any fonts other than the standard PostScript fonts (such as Times and Symbol) must be embedded in the document, and don't use national (e.g. Japanese) fonts.

The manuscript must include a concise abstract (less than 200 words), a complete list of references, figures and tables with captions. Each author's name is given in the order of first name, initial of optional middle name and last name, as in Carl F. GAUSS. References are cited as [1], [2, 3], and [1, 2, 3], and are listed at the end of the manuscript, not preceded by a header such as “References.” See also Fig. 1 and its caption.

Equations should be indented by 10 mm from the left



Fig. 1 APiP2025 website. Letters in figures must be sufficiently large.

margin, as is

$$\tilde{f}(\mathbf{x}, \mu, E) = -\boldsymbol{\rho} \cdot \nabla f_M(\mathbf{x}, E). \quad (1)$$

Vector expressed by a Greek font should be written in Greek Bold; e.g.,  $\boldsymbol{\rho} = \mathbf{b} \times \mathbf{v}_\perp / \Omega$ . For equations separated into multiple lines, the equation number should appear only on the last line.

- [1] M. D. Kruskal and R. M. Kulsrud, Phys. Fluids **1**, 265 (1958).
- [2] L. Spitzer, Jr., *Physics of Fully Ionized Gases* (Interscience Publishers, New York, 1959) p. 20.
- [3] S. Tanaka, to be published in Jpn. J. Appl. Phys. **22** (1983).