

Plasma Waves and Instabilities (2024)

Princeton University, AST 553

The course is open to graduate students of Princeton University and recommended for all graduate students studying plasma physics. Attending lectures is strongly encouraged. Auditing is welcome.

Contacts

Course website:

<http://www.princeton.edu/~idodin/ast.htm>

Lecturer: Ilya Dodin

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Teaching assistant: Andrew Brown

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Classes

Schedule: 9:00 am – 10:20 am, Mondays and Wednesdays

Teaching: in-person

Classroom: McDonnell 108

Textbooks

- [Lecture notes](#)

Additional reading

- T. H. Stix, *Waves in Plasmas* (AIP, 1992), second edition.
- E. R. Tracy, A. J. Brizard, A. S. Richardson, and A. N. Kaufman, *Ray Tracing and Beyond: Phase Space Methods in Plasma Wave Theory* (Cambridge University Press, 2014).