

# Astrophysics I

## Physics 6011, Spring 2011

**Lam Hui**

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*Office hours.* Thursday 4:30 – 5:30 pm, or by appointment.

*Class Meeting Time/Place.* Thursday 3:00 - 5:30 pm at 831 Pupin. (Note time change to accommodate students' schedules.)

*Teaching Assistant.* Kyle Parfrey. Email: [kyle@astro.columbia.edu](mailto:kyle@astro.columbia.edu)

*Prerequisites.* Basic knowledge of general relativity will be assumed. If you have not taken general relativity before, let me know so that I can help you prepare accordingly. If you are an undergraduate student, you must obtain explicit permission from me to register for the course.

*Requirements.* Problem sets.

*Texts.*

The following texts are available at the Book Culture, located on W. 112th Street, between Broadway and Amsterdam.

Their website is <http://bookculture.worldpress.com>

- Black holes, white dwarfs and neutron stars, by Stuart Shapiro and Saul Teukolsky.
- Spacetime and geometry, by Sean Carroll.
- High energy astrophysics, by Fulvio Melia.
- Accretion power in astrophysics, by Juhan Frank, Andrew King and Derek Raine.
- Plasma physics for astrophysics, by Russell Kulsrud