



Stellar Astrophysics

<https://www.rodolfoangeloni.net/stellar-astrophysics.html>

2018B Semester

Monday – Tuesday – Thursday



Área de Astronomía

Departamento de Física y Astronomía - Universidad de La Serena

Rodolfo Angeloni

Instituto de Investigación Multidisciplinar en Ciencia y Tecnología

Universidad de La Serena

Getting to Know Each Other

- The Students
- The Course
- The Lecturer



You



The COURSE – Outline

- Introduction to Astrophysics
- Interaction of Radiation with Matter
- Basic Theoretical Ideas and Observational Data
- Equations of Stellar Structure and Evolution
- Nuclear Processes
- Stellar Models
- The Evolution of Stars
- The Stellar Life Cycle
- *...Bonus Tracks...*



The COURSE – *Bonus Tracks*

- *Star Formation*
- *Winds and Mass Loss from Stars*
- *Astrophysical Jets and Beams*
- *Binary Stars*
- *Variable Stars*
- *Cataclysmic Variables and Nova-like Objects*
- *Planetary Nebulae*
- *Globular Clusters*
- *Stellar Spectral Classification*
- *Introduction to Solar Physics*
- ...



The COURSE – Lectures

- 2 Academic Hours per Lecture: w/ or w/o break?
- 3 Lectures per Week: 2 "standards" + 1 "flipped"
- 18 Weeks in the Semester



The COURSE – Methodology

- "Classical-style" Lectures
- Guided Reading of Scientific Papers
- Focused Seminars, on occasion by Invited Lecturers
- "Flipped Classrooms": your time, your space
- ...

The COURSE – Assessment Criteria

- 10% Active Participation
- 30% Student Seminars (at least 2)
- 60% Final Test (written + oral)

Don't let this be you...

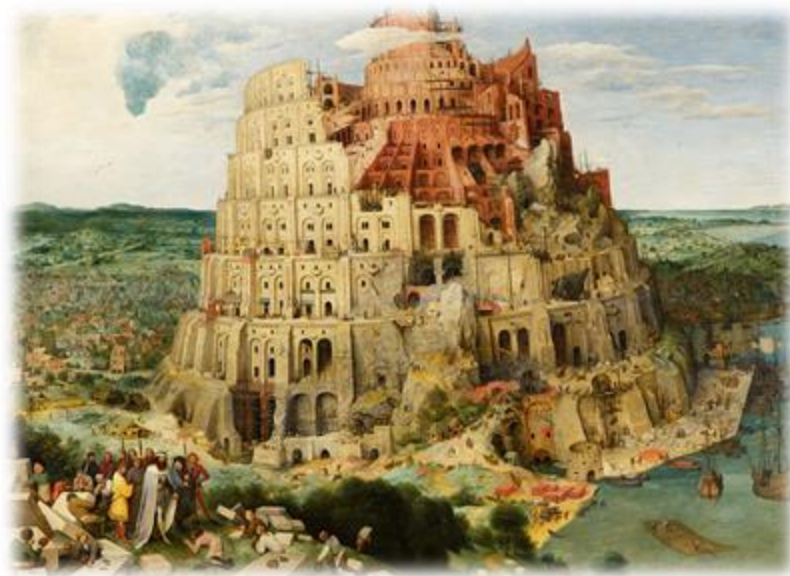


Plan ahead!

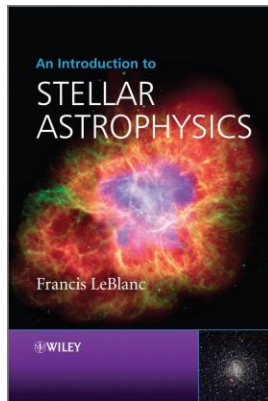
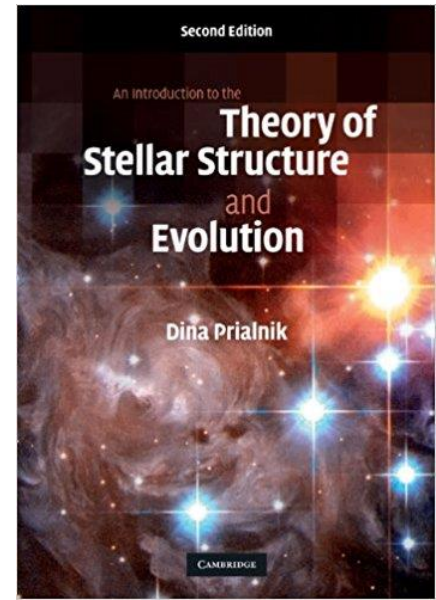
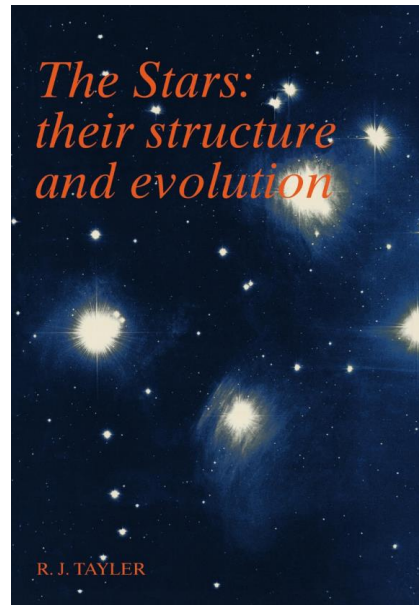
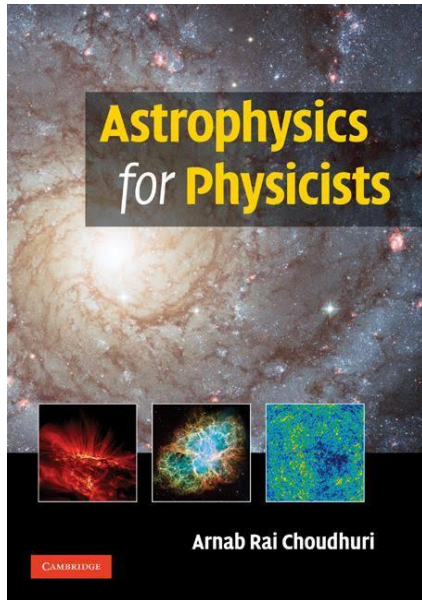


The COURSE – Language

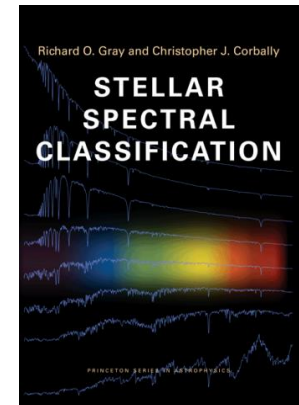
- Learning Material: in English
- Student Seminars: in English (?)
- ...
- Lectures: en Itañoł *...or English, if you do prefer it...*



The COURSE – Bibliography



The screenshot shows the top part of the ADS website. It features the "ads" logo in white on a dark blue background, with the NASA logo below it. The text "The SAO/NASA Astrophysics Data System" is centered. Below this is a search bar with a "Search" button and links for "Search", "Browse", and "Help". At the bottom, it says "Welcome to the Digital Library for Physics and Astronomy" and "This site is hosted by the High Energy Astrophysics Division at the Harvard-Smithsonian Center for Astrophysics" with the Harvard and Smithsonian logos.



The COURSE – Official webpage

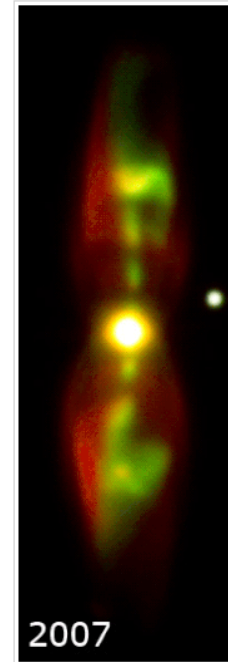
Stellar Astrophysics

Astrofísica Estelar

Curso para el Programa de
Licenciatura en Astronomía

Semestre 2018B
Lunes, Martes y Jueves


*Departamento de Física y Astronomía
Universidad de La Serena*



Click for more info

Presentación del Curso

2018/10/22

Intro.pdf
[Download File](#) 

Lecture Notes

[Log in](#)

Tareas

[Log in](#)

<https://www.rodolfoangeloni.net/stellar-astrophysics.html>

Rodolfo Angeloni

PhD: University of Padova (Italy), 2009



RESEARCH INTERESTS

Panchromatic Stellar Variability
Interacting Binaries
Astronomical Instrumentation
History of Astronomy
Philosophy of Science

CONTACTS

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