



Stellar Astrophysics

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

2019A Semester

Monday – Tuesday – Thursday

16:15 – 17:45 hrs



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
- Stellar Spectral Classification
- The Stellar Life Cycle
- *...Bonus Tracks...*



The COURSE – *Bonus Tracks*

- *Star Formation*
- *Mass Loss from Stars (Dr. Claudia Paladini, ESO)*
- *Astrophysical Jets and Beams*
- *Binary Stars*
- *Variable Stars*
- *Cataclysmic Variables and Nova-like Objects*
- *Planetary Nebulae*
- *Supernovae (Dr. Massimo Turatto - INAF)*
- *Globular Clusters (Prof. Doug Geisler – ULS, UdeC)*
- *Introduction to Solar Physics (Prof. P. Muñoz - ULS)*
- ...



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

- 5% Active Participation
- 25% Student Seminars (at least 2)
- 70% Final Test (written + oral)

Don't let this be you...

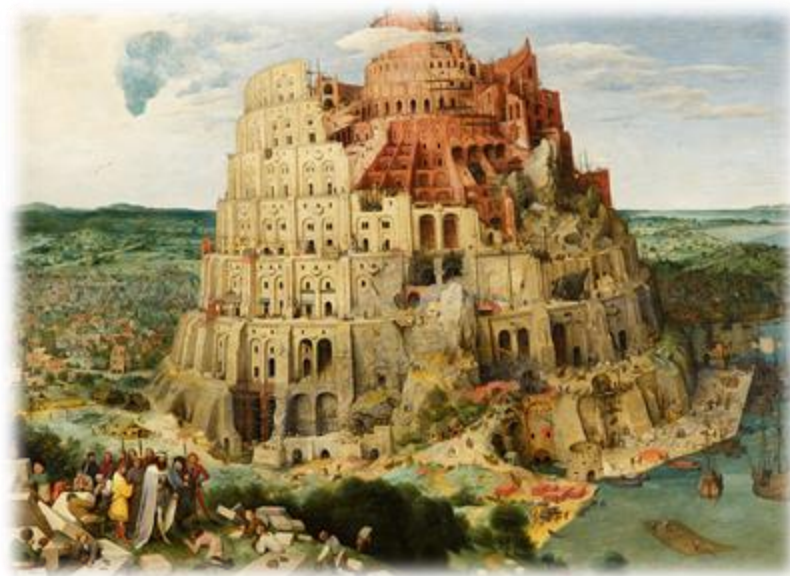


Plan ahead!

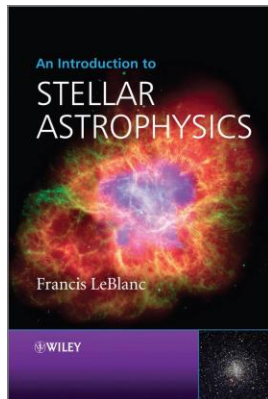
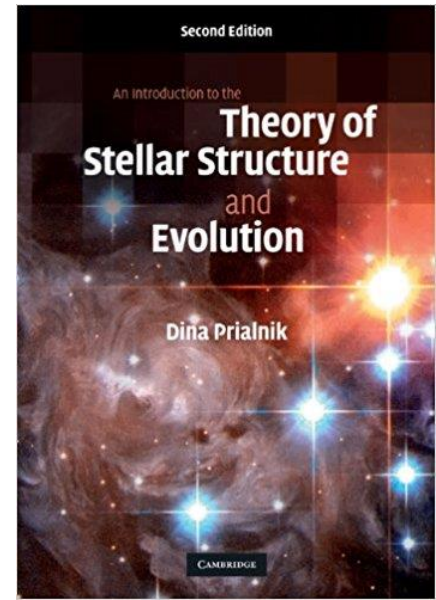
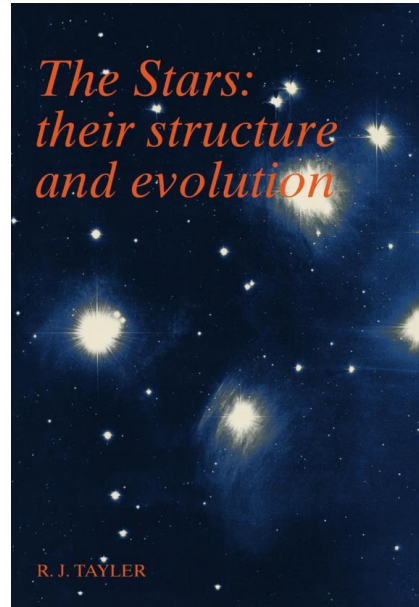
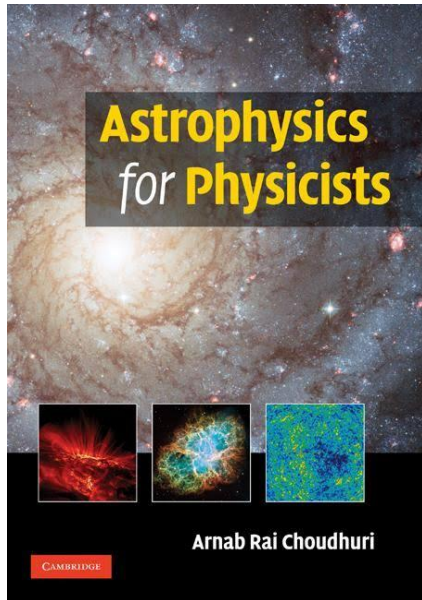


The COURSE – Language

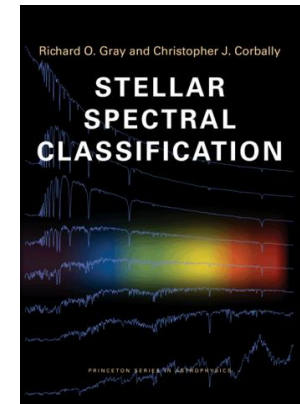
- Learning Material: in English
- Student Seminars: in English (?)
- Lectures: en Itaño! *...or English, if you do prefer it...*



The COURSE – Bibliography



The screenshot shows the ADS website interface. At the top, the letters 'ads' are written in a white, lowercase font against a dark blue background with a NASA logo. Below this is the text 'The SAO/NASA Astrophysics Data System' in blue. There 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 a logo.



The COURSE – Official webpage

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Stellar Astrophysics

Astrofísica Estelar

Curso para el Programa de
Postgrado en Astronomía

Semestre 2019A

Lunes, Martes y Jueves

16:15-17:45 hrs

Sala de Computación, 1er piso

Departamento de Física y Astronomía
Universidad de La Serena



Click for more info

Presentación del Curso

2019/04/01

Intro.pdf
[Download File](#) 

Clases

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Material complementario

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Anuncios

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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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