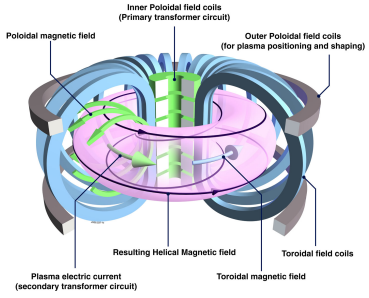
https://www.ruf.rice.edu/~baring/phys532/phys532.html

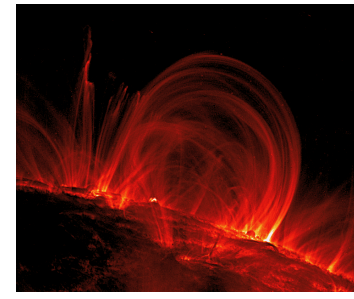
Classical Electrodynamics

PHYS 532 (Spring 2023)



Coil+field configuration of JET torus


Crab Nebula: optical and X-rays


Solar prominence magnetic field loops

[Click on images for larger versions]

Course Description	Syllabus	Assessment

A full description of the course, including a detailed syllabus, assessment, and classroom and grading policies, is provided in the Official Rice Syllabus for PHYS 532, Spring 2023. Students are expected to have read it in its entirety by the end of the first week of classes.

Lectures: Wednesday & Friday, 2.00pm - 3.15pm. Location: TBD + Zoom (dual delivery)

Office Hours: Monday, 4.00pm - 5.30pm (Zoom) & Friday, 12.00pm - 1.30pm (HBH 310).

Text: *The Classical Theory of Fields*, by Lev D. Landau and Evgeny M. Lifshitz.

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Image Credits:

- Schematic of the current coil and magnetic field configuration at the Joint European Torus (JET) tokamak fusion reactor EUROfusion web pages
- Montage of Hubble Space Telescope (optical) and Chandra X-ray Observatory images of the magnetohydrodynamic synchrotron nebula surrounding the Crab Pulsar: HubbleSite Image Gallery
- TRACE (Transition Region and Coronal Explorer) image of EUV emission from coronal magnetic field loops (prominences) above the solar photosphere: TRACE image archive (Stanford)