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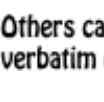





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The Magnetopause: Bringing Space Physics Into a Junior Lab

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Presentation

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Abstract

Undergraduate students often have minimal exposure to many subfields of physics which are active areas of research. Space physics is an area that is particularly difficult to expose students to since it builds off of another area that most undergraduates see little of, plasma physics. The magnetopause is convenient entry point into space physics, since it can be modeled as a pressure balance, which is a concept familiar from introductory physics. We use the Earth's magnetopause as the basis for a lab for junior physics majors. In the lab students analyze results from a NASA MHD simulation and data from several spacecraft. In this lab, not only are students exposed to space physics, but they also develop their data analysis skills.

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