PlasmaPy as an educational resource[1] DAVID SCHAFFNER, Bryn
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Harvard-Smithsonian Center for Astrophysics — As a software ecosystem, the
PlasmaPy Project aims to incorporate a multitude of educational resources for the
plasma community in addition to developing an open source Python package for
plasma physics research. Potential educational resources include: 1) extensive documentation for diagnostic analysis tools that go beyond code function and aim to
clearly explain how such diagnostics operate, 2) a suite of Jupyter notebooks that
introduce plasma concepts using functionality from PlasmaPy, and 3) development
of PlasmaPy-based code and tools for incorporation into undergraduate laboratory
curricula. Many of these educational elements will be designed with an eye toward expanding the pipeline of students into plasma physics careers, with resources
aimed at introducing students to both plasma concepts and software best practices
at graduate, undergraduate and even high school levels. In this poster, we will
discuss current capabilities and future plans for using PlasmaPy as an educational
resource.

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