
PEM030-03

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Solar/stellar winds and accretion disk winds by nonlinear MHD waves and turbulence

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Nonlinear processes of magnetohydrodynamical (MHD) waves and turbulence play an important role in driving astrophysical winds such as solar winds, red giant winds, and (a part of) accretion disk winds. We have studied the mechanism of such astrophysical winds by using numerical simulations. In this talk, I summarize the present status of understanding of MHD wave / turbulence-driven winds with introducing our results and discuss future directions of this research topic.

Keywords: MHD waves, MHD turbulence, Solar winds, stellar winds, accretion disks