

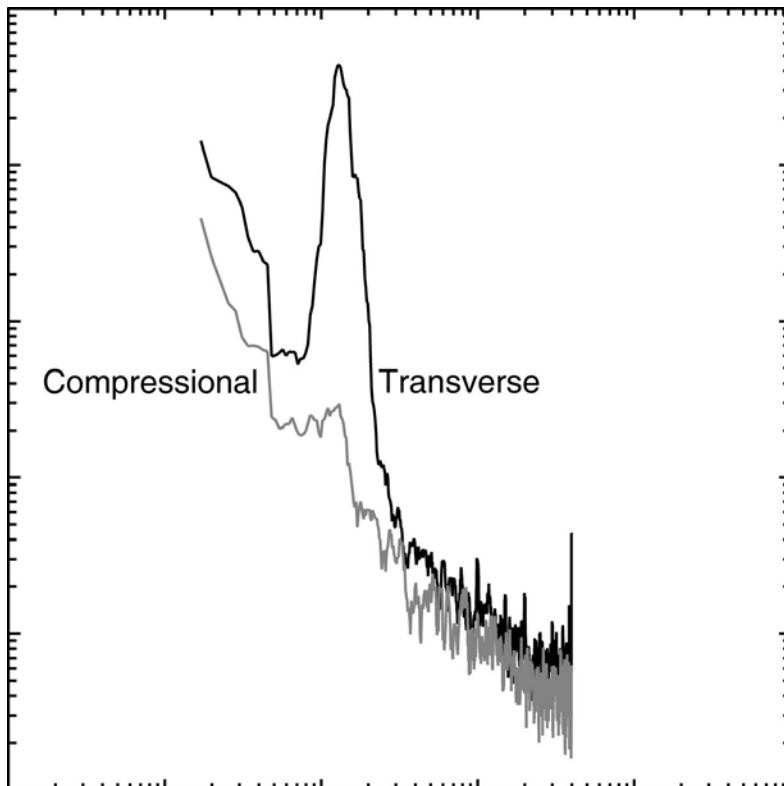


Heating and Accelerating the Solar Wind

C.T. Russell¹, J.G. Luhmann², L.K. Jian¹, X. Blanco-Cano³

¹UCLA; ²UCB; ³UNAM

SHINE-GEM, Session 8: Perpendicular Ion Heating: Observations at Earth and theory at the Sun



- Ion-cyclotron waves are thought to heat the solar wind, but they are expected to be heavily damped and not reach 1 AU.
- Mirror-mode waves can be co-generated with ion-cyclotron waves. These waves can survive to reach large heliocentric distances.
- STEREO does see ion-cyclotron waves at 1 AU. The only possible source of these waves is the inner solar corona.