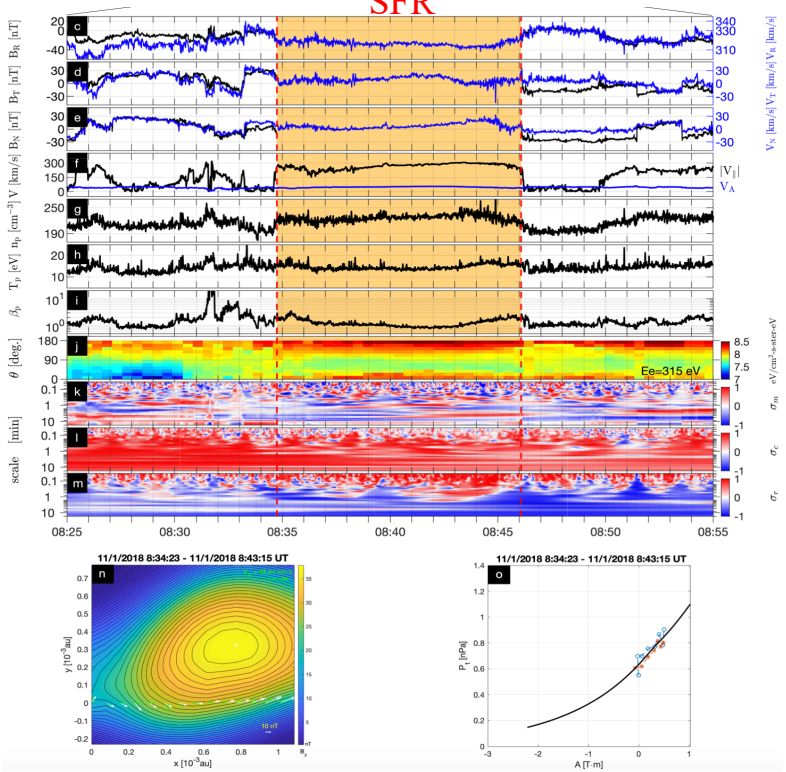
Parker Solar Probe Observations of Alfvénic Waves and Ion-cyclotron Waves in a Small-scale Flux Rope

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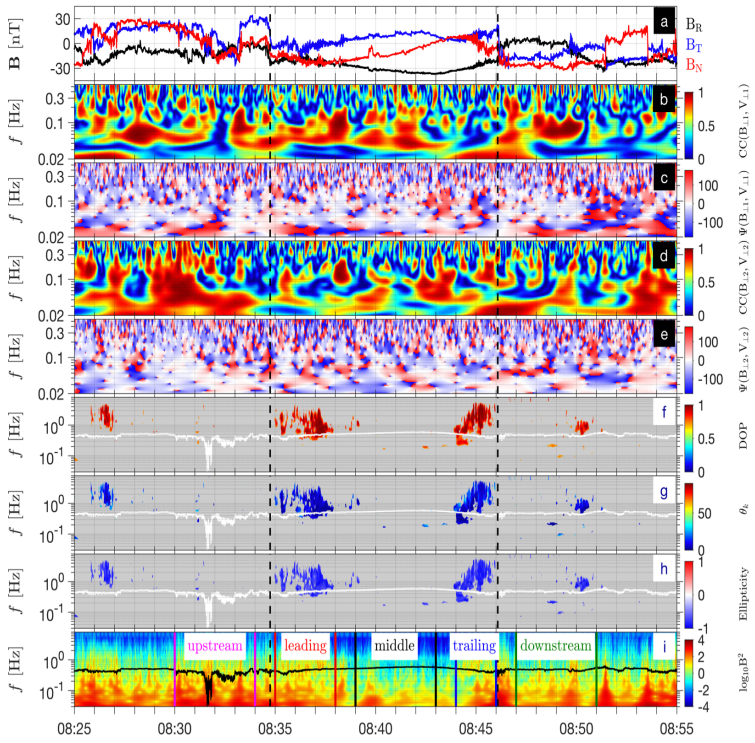
- SFRs with medium and high Alfvénicity are normally discarded in automated identification procedures.
- We first identify an SFR event with medium Alfvénicity in the inner heliosphere (at ~0.2 au) using Parker Solar Probe measurements.

SFR

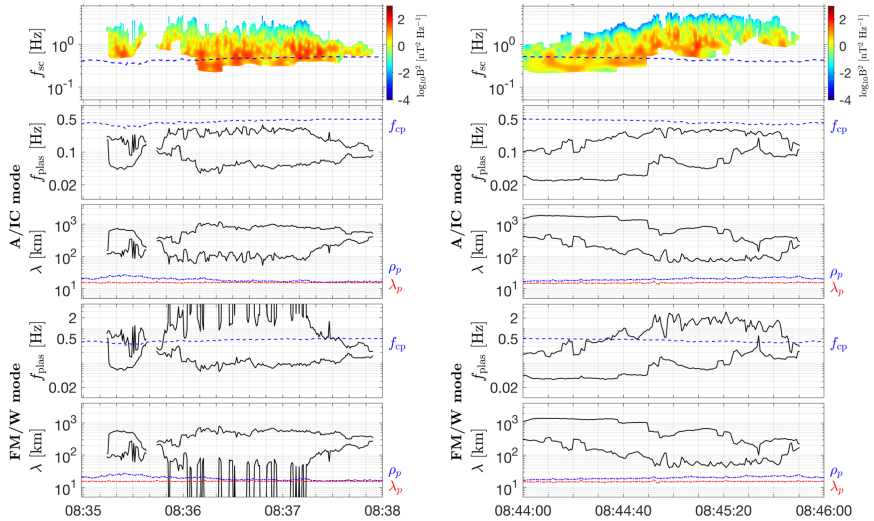


- We also find that Alfvénic waves and quasi-monochromatic electromagnetic waves arise inside SFR.
- High frequency waves are well interpreted as the outward-propagating ion-cyclotron waves

Wave Analysis



Identifying Wave Mode



For more info, please see Shi et al. 2021, ApJL, 908:L19.
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