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Observations of fast wave trains from SoLO/Metis

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The physical mechanism responsible for the generation and propagation of quasi-periodic fast-propagating (QFP) magnetosonic wave trains in the solar corona remains poorly understood. While several events have been analyzed and modeled via numerical simulations, key questions regarding their origin and evolution remain open. We present a preliminary analysis of a coronal event occurred on 5 October 2023, in which a coronal mass ejection (CME) at the eastern limb was followed by the clear emergence of a QFP wave train. Using visible-light observations from the METIS coronagraph, covering the time interval from 19:00 UTC on 5 October 2023 to 05:00 UTC on 6 October 2023, we measure the physical parameters of the magnetosonic wave train.

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