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Abstract:

The Orion-Eridanus superbubble is the primary example of mass star formation feedback's dominating the surrounding ISM's energetics. Given its relative closeness, it is an ideal target for studying the structures and processes of the interaction between star formation and ISM. In the past decades, we have been observing the superbubble in multiple bands and constructed dynamic models. Critical questions remain with regard to the magnetic structure and the dynamic structures pertaining to the expansion of the supershell. We propose sensitive FAST observation of the HI gas and Zeeman effect of the Orion-Eridanus supershell to better understand its origin and its impact on ISM.