PID:PT2022_0195

Abstract:

High-velocity clouds (HVCs) is an important component of the Galactic baryon and its interaction with the Galactic plane has significant implication for Galactic evolution, yet its origin remains unknown. Limited by sensitivity and resolution, in previous HI surveys (e.g. the LAB survey), the interaction between HVCs and the Galactic disk have rarely been studied in details. Here, we target HVC 'complex H', which may be producing supershells as predicted by models, with FAST. Our proposed observation will achieve at least five times better angular resolution than previous observations, thus shedding critical lights onto the interaction between the HVC and the general ISM.