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Proposal Abstract:

Interstellar magnetic field is an important physical quantity regulating star formation in molecular clouds. It can be measured using Zeeman effect, but is extremely difficult with very few tracers. Previous FAST observations proved that HI narrow self-absorption (HINSA) is a good tracerfor systematic Zeeman survey in molecular clouds. Here we propose a HINSA Zeeman survey of W75N, aiming to run a comprehensive study of the magnetic field in a star-forming region that will contribute to the understanding of the broader star-formation process.