CARMA View of Filaments in Nearby Molecular Clouds:
Gradients, Substructure, and Flattened Environments

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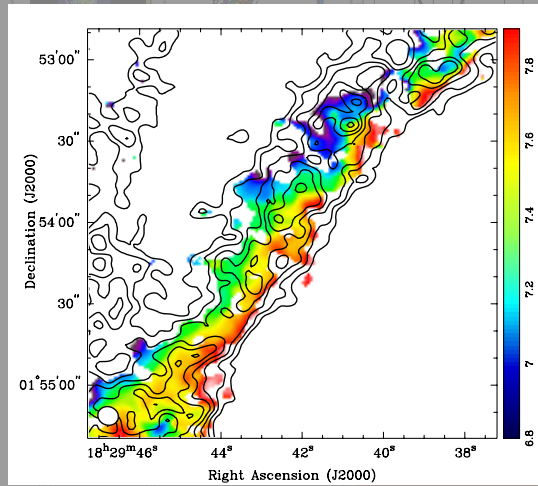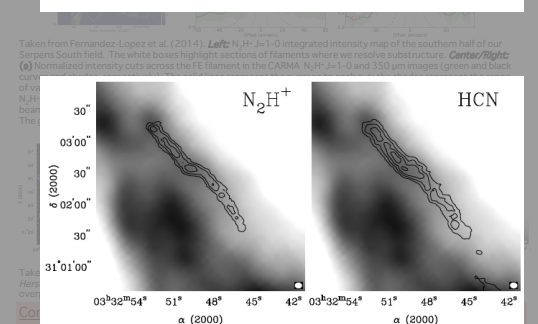
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Result 1:
- Radial gradients discovered in filaments.

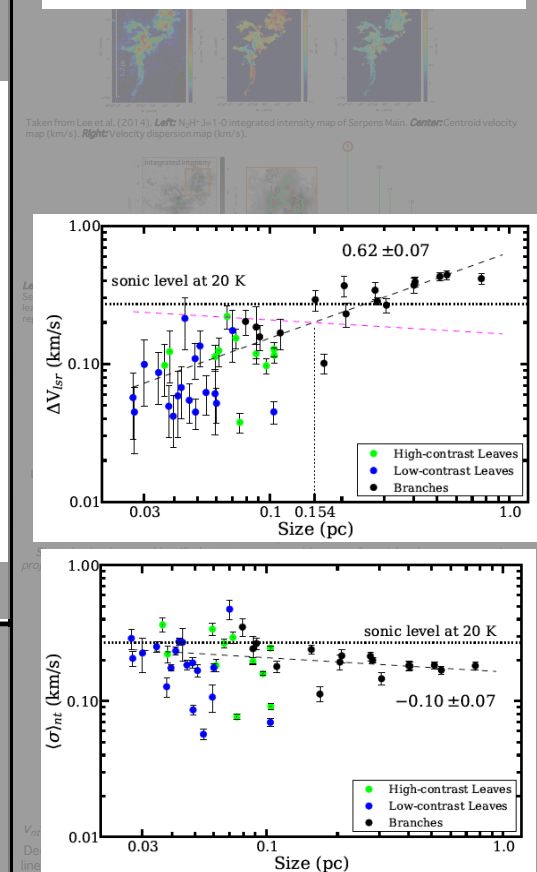- Filaments are self-gravitating structures accreting from a flattened larger-scale layer.

Result 2:
- Substructure appears within filaments with our higher angular and velocity resolution.

Result 3:
- CLASSy regions have line-of-sight depths ~0.1-0.2 pc.

- They are flattened at the largest (parsec) scales.

Topic 1: Filament Formation

Topic 3: Filament Environment

Topic 2: Filament Substructure