Anticipated project start (Jan 2018) Graduate Student (KU)

Completion of data acquisition phase of survey

Prior to start of grant | year 1 | year 2 | year 3

Reduction of NGC Halpha data (KU)

Analysis of Halpha morphologies For NGC filament (KU)

Data release with profile maps*

H-alpha, CO, and HI observing campaign for NGC 5353 Filament

Reduction of Leo Halpha data (Siena)

Analysis of Halpha morphologies for Leo Virgo filament (KU)

Development of official data release website. Website will serve processed images and high-level products (Siena)

Completion of H-alpha reduction pipeline (Siena)

Effect of environment on spatial distribution of H-alpha and dust*

H-alpha, CO, and HI observing campaign for Leo Virgo Cluster Filaments

Effect of environment on total SFR and integrated CO, HI, and dust content*

Size measurements from WISE 12um data (Siena)

Use of gas contents and gas profiles to constrain stripping and starvation in models*

HI reduction and HI mass derivation (EPFL/Paris)

Implementation of SAMs in constrained local simulation (Trieste)

Dust-mass based gas estimates and the effect of environment in many SDSS filaments *

CO reduction and CO luminosity derivation (EPFL/Paris)

cross-calibration of CO and WISE total fluxes to test dust luminosity as proxy for CO luminosity in large samples (KU)

Calibrate spatial dust-to-gas ratio using literature (Siena)

Use WISE to study spatial dust profiles in many SDSS filaments (KU)

Determine effect of filaments on dust spatial distribution.*

Fall 2018 domestic team meeting | Disseminate preliminary results at domestic conference | Fall 2019 foreign team meeting | Disseminate preliminary results at domestic conference | Fall 2020 domestic team meeting | Disseminate final results at international conference

* indicates publication