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

H-alpha observing campaign for Leo Virgo Cluster Filaments

H-alpha observing campaign for NGC 5353 Filament

Reduction of Leo Halpha data (Siena)

Analysis of Halpha morphologies for Leo Virgo filament (KU)

Data release with profile maps*

Completion of H-alpha reduction pipeline (Siena)

Analysis of Halpha morphologies For NGC filament (KU)

Development of official data release website. (KU)

Reduction of NGC Halpha data (KU)

Effect of environment on integrated SFR (Hα +22μm), CO, and HI*

Effect of environment on spatial distribution SFR and dust*

HI and H₂ (via CO) mass derivation (EPFL/Paris)**

Size measurements from WISE 12um data (Siena)

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

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

CO and HI observing campaign and reduction (EPFL/ Paris)**

Implementation of SAMs in constrained local simulation (Trieste)**

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

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

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

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   **** indicates work done by unfunded international collaborators**