



2019 천문우주과학과 세미나

**SEMINAR IN**  
**ASTRONOMY &**  
**SPACE SCIENCE**

**THURSDAY, 26 SEPTEMBER 2019**

**정은정 박사님** (충남대학교 자연과학연구소)

**Title** : Filaments, the Universal Nursery of Stars  
(Interstellar matter and initial conditions of star formation)

**16:00 PM, 천문우주과학과 기2111호(감민호홀)**

# ABSTRACT

It is revealed that molecular clouds are filamentary and such a structure is ubiquitous over various star-forming environments, and it is clear that filaments play a crucial role in the formation of cores and stars. However, the formation process of filaments and dense cores are still unclear. To investigate this issue in detail, we have carried out TRAO FUNS (TRAO Survey of nearby Filamentary molecular clouds, the Universal Nursery of Stars) toward various star forming filamentary clouds. In this presentation, I will report the first results of TRAO FUNS, filaments and dense cores in L1478 of California molecular clouds, and introduce the FUNNER study with supplemental polarization and high resolution data to uncover the initial conditions of star formation.