

CONTROL ID: 2256677

TITLE: Water in the interstellar medium of galaxies

ABSTRACT BODY:

Abstract Body: Water is a key constituent of interstellar matter, with a great influence on the formation of stars, planets, and life.

The rotational and vibrational transitions of H₂O are useful tracers of physical and chemical conditions in a broad range of astrophysical objects.

This talk reviews recent observations of water in Galactic interstellar clouds and star-forming regions, as well as nearby galaxies and distant starbursts and AGN.

Results are presented from several Herschel key programs, and prospects are outlined for future observations with ALMA and beyond.

CONTACT (NAME ONLY): Floris van der Tak

CONTACT (E-MAIL ONLY): vdtak@sron.nl

AUTHORS/INSTITUTIONS: F. van der Tak, SRON, Groningen, NETHERLANDS|F. van der Tak, Kapteyn Institute, Groningen, NETHERLANDS|

PRESENTATION TYPE: Oral