

IAUS-REG-NUMBER: IAUS-146 NAME: Vincent Icke AFFILIATION: Universiteit Leiden CONTRIBUTION: Talk TITLE: Theoretical shapes and spectra of evaporation-driven pre-PN AUTHORS: Vincent Icke AFFILIATIONS: Sterrewacht Leiden

## **ABSTRACT:**

I have numerically explored the parameter space of evaporation-driven flows from circumstellar disks. I have paid special attention to the influence of the initial atmosphere around the star and above the disk. I experimented with several forms of spherical stellar wind, and the various ways in which their density, pressure and velocity depend on the distance to the star. The resulting shapes correspond well to nebulae such as Hen3-401, Hen3-1475, and M1-92. I have derived long-slit spectra and redshift channel maps from my simulations. These show a "Hubble-type" velocity field, but the gas tends to be much more turbulent than is observed.