David Mkrtichian, Senior Researcher, NARIT

Research interests

EXOPLANETS:

- Spectroscopic and photometric search for and studies of exoplanets
- Pulsating exoplanet host stars and stars with collapsing exoplanets

ASTEROSEISMOLOGY:

- Asteroseismology and atmospheric tomography of rapidly-oscillating magnetic stars
- Asteroseismology of mass-accreting components of semi-detached eclipsing binaries
- Pulsating main-sequence variables inside the instability strip

MASS-TRANSFER AND CIRCUM-BINARY GAS ENVLEVOPES IN ALGOL SYSTEMS:

- Study of spectroscopic indicators (He I lines) of mass-accretion and gas envelopes
- 3-D hydrodynamic simulation of mass-transfer in Algol systems
- Study of interaction of magnetic activity and mass-transfer/accretion events on pulsations

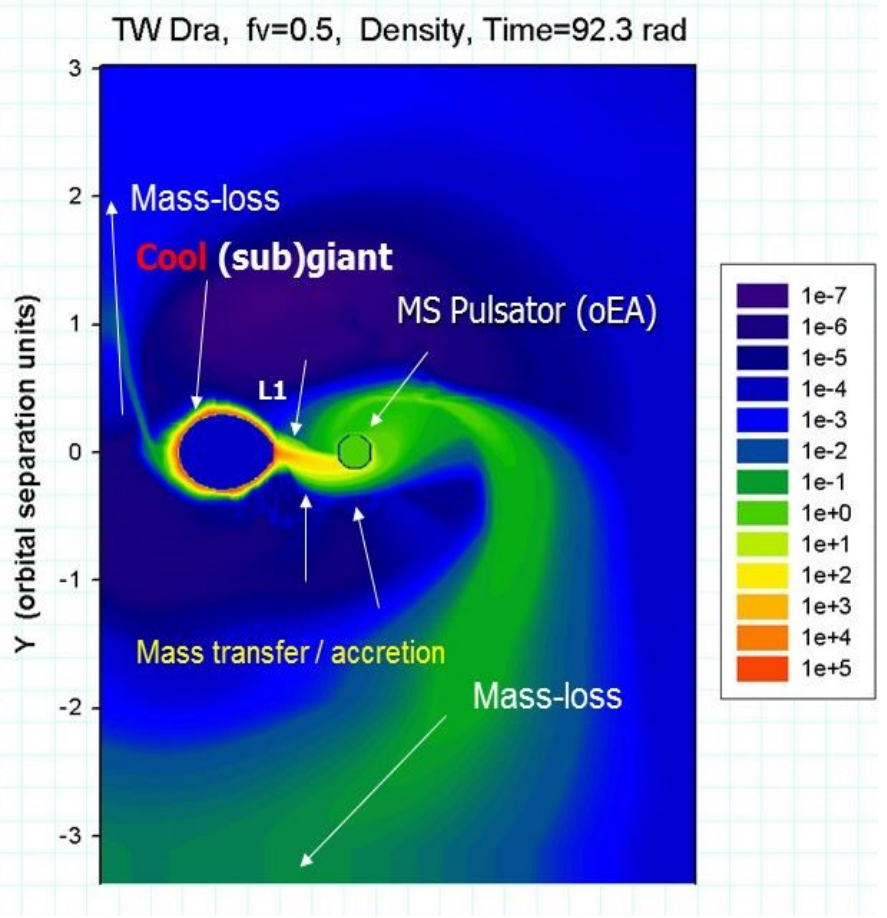
MY GOALS IN STUDYING CLOUDY:

- To study CLOUDY for its application in modeling of circulating gas-envelopes around mass-accreting star

KHEMSINAN GUNSRIWIWAT (Grace)

“ Studied a new class of mass-accreting pulsating primary components in Algol-type systems (oEA stars) ”

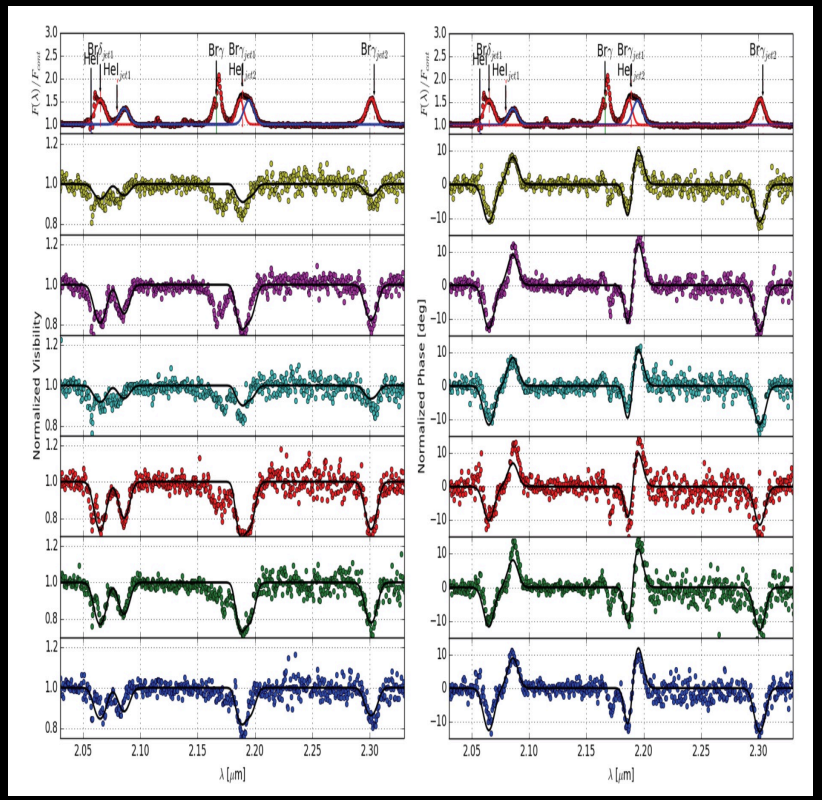
- **Graduated master degree in majoring Astronomy from Chiang Mai University, Thailand. The topic of master thesis is “ Photometric and Spectroscopic Investigation of oEA stars under THASSOS project ”**

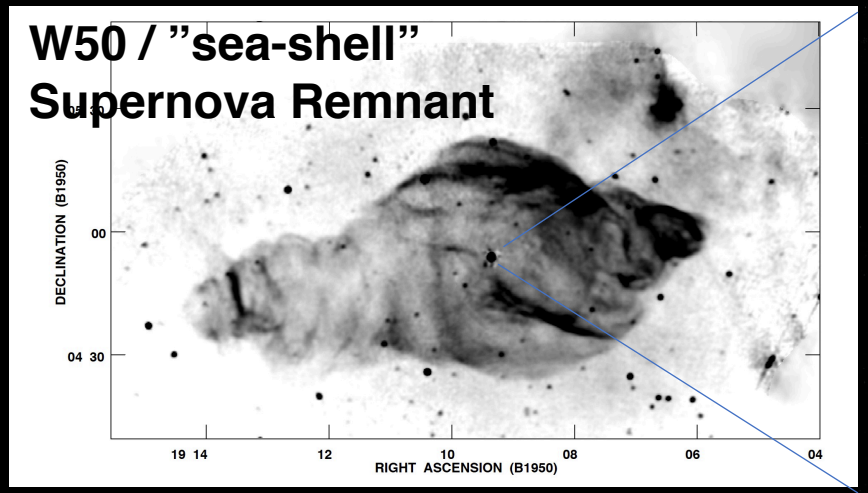


Present work as assistant researcher at NARIT

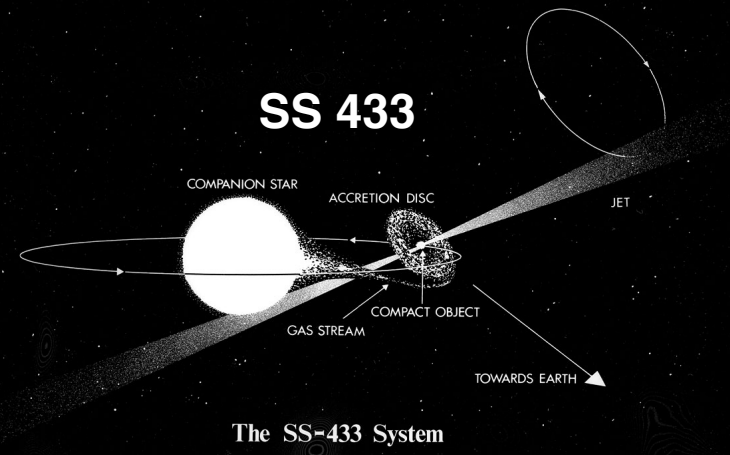
- **To study the results of photometric and spectroscopic investigations of Algol-type binary system to determine the physical parameters and study intrinsic pulsations of primary mass-accreting components.**
- **To develop a code for calculating the mode identification (periodic spatial filter method) and simulating eclipse modelling of oEA stars, which includes inclination of pulsation axis and mass-transfer from secondary component.**

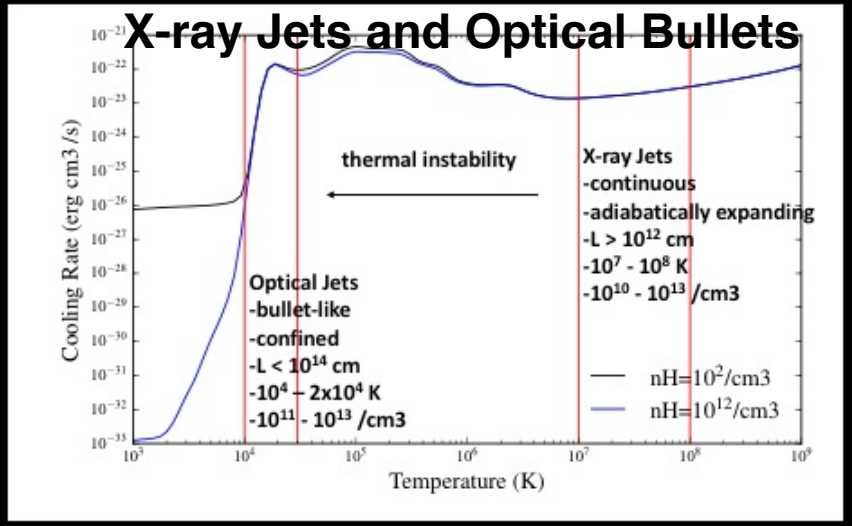
Baryonic Jets Resolved with Optical Interferometry <~1 mas

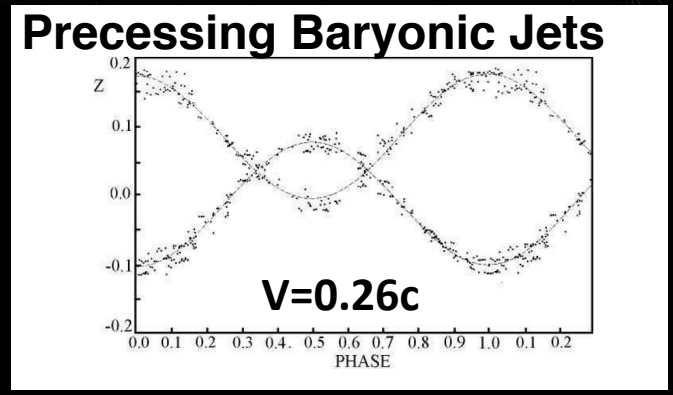




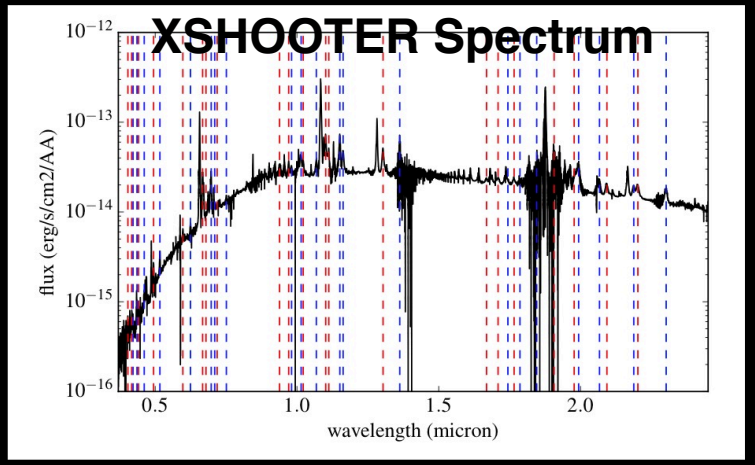
Idel Waisberg, MPE Garching







My intended project:
- Model the baryonic H I and He I jet lines of SS 433 with Cloudy with coronal and photoionization models



Sutthawee Yodmongkol (Bright)

Undergraduate Student in Physics

Suranee University of Technology, Thailand

Research Interest :

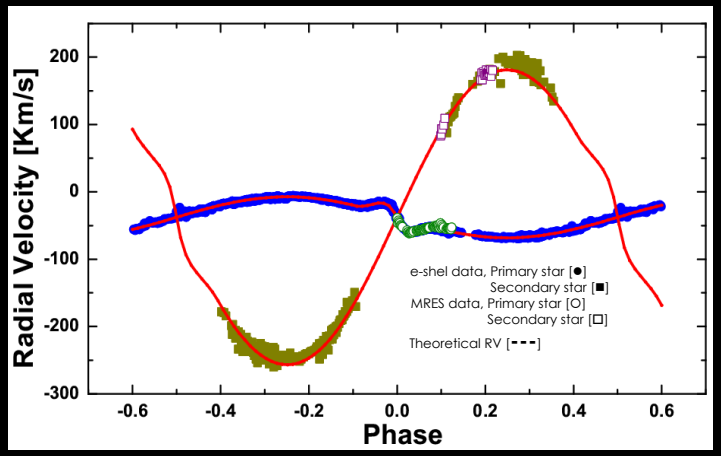
- Exoplanets

NAPAPORN A-THANO

National Astronomical Research Institute of Thailand
(Public organization)

Research interests : Spectroscopic analysis of the Oscillating Eclipsing Algols (oEA) stars and Exoplanet study by using radial velocity technique.

The radial velocity curve R CMa binary system (oEA stars).



RV curve of primary component of R CMa. Rossiter effect appear on primary eclipse.