

Opening a New Window on the Southern Stars for less money Polar Robotized Missions



Circumpolar Stellar Astrophysics



PAIX & EXPLORER

PAIX

2014 – 2018 (Under way)

2018 - 2022

Photometer Antarctic eXtinction

Globular Clusters & Pulsating Stars

Internal Stellar & Evolutionary Properties

supported by

ANR – INSU – CPST – IPEV

US Air Force

European Office of Aerospace

EXPLORER

2018 - 2022

Polar Missions Competitive
with
Space Missions

Exoplanets, PuLsatiOn & high REsolution spectRoscOpy

Hydrodynamic Phenomena & Modulations

Mass Loss origin in Evolved Stars

Exoplanets Detection - Doppler Effect

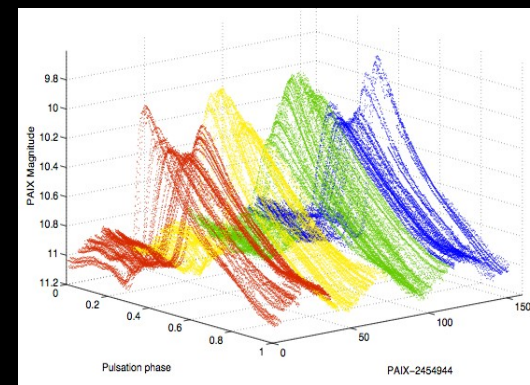


No continuous
Space Time-Series
Spectroscopic Precision is
obtained or programmed
so far

collaborations:

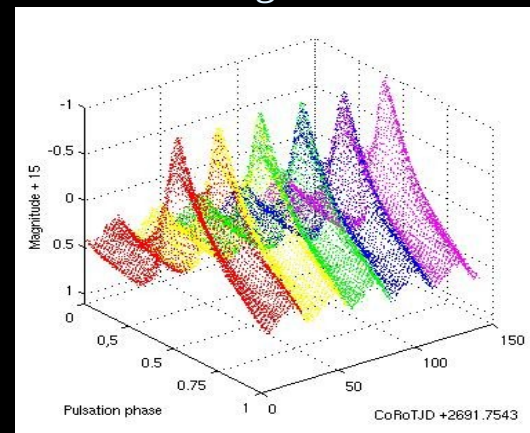
US Air Force, DGA Matrise de l'Information, China Academy of sciences, National Astronomical Observatories of China NAOC, University of Beijing, European Space Agency ESA, European Southern Observatory ESO, Université Nice Sophia-Antipolis (PI), Observatoire Côte d'Azur OCA (PI), University of Roma, INAF, Osservatorio di Arcetri.

PAIX Light Curve from Antarctica



Chadid, Vernin, Preston et al. 2014 AJ 148,88

CoRoT Light Curve



Chadid, Benko, Szabo et al. 2010, A&A 510, 39
Highlights