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## All research projects of research team Institute of Astronomy

Observational study of stars in stellar systems.

Project number:  
3E010095

Responsible:  
Conny Aerts

Duration of the project:  
2002 01 - 2005 12

Global groundsupport for the MONS space mission.

Project number:  
3E010476

Responsible:  
Conny Aerts

Duration of the project:  
2001 12 - 2004 11

Software development and scientific calibration of star trackers for the asteroseismological space mission MONS.

Project number:  
3E010523

Responsible:  
Conny Aerts

Duration of the project:  
2001 01 - 2002 12

Development of software for the space mission MONS. MONS is a Danish asteroseismological space project in which Belgium has a partnership through our project. The objective of the project is to develop and implement software for the stability and control of the star trackers on the one hand, and for the calibration and data reduction procedure of star tracker data on the other hand.

Asteroseismologie van massieve sterren aan de hand van de toekomstige Europese ruimtemissies MONS en COROT

Project number:  
3E010609

Responsible:  
Conny Aerts

Duration of the project:  
2002 10 - 2007 09

Contributions to the interpretation of line-profile variations of pulsating B stars.

Project number:  
3E020515

Responsible:  
Conny Aerts

Duration of the project:  
1997 02 - 2002 01

Mode identification based on photometric and spectroscopic

Project number:  
3E020720

Responsible:  
Conny Aerts

Duration of the project:  
2002 10 - 2003 09

Disentangling of high-resolution spectral line profiles of massive close binary stars with a pulsating component.

Project number:  
3E030041

Responsible:  
Conny Aerts

Duration of the project:  
2003 09 - 2003 11

The purpose of the short visit is to collaborate intensively on the disentangling of spectra of 5 targets in the seismic database at the Institute of Astronomy. These targets turn out to be members of a close binary so that the orbital and pulsational motion need to be deconvolved. The candidate developed methodology for such disentangling. He will help applying it to the 5 stars. The deconvolution has to be performed before any seismic study can be started for these stars.

Model atmospheres for cool stars.

Project number:  
3E000001

Responsible:  
Christoffel Waelkens

Duration of the project:

The project aims at the refining of theoretical models of the atmospheres of cool stars and at the confrontation of synthetic spectra with observations obtained with the ISO satellite. The goal is twofold: on the one hand to construct more accurate model atmospheres and on the other hand to determine the