

Introduction

Gábor Kovács

ESR at IoA node

IAC, 2009

Education

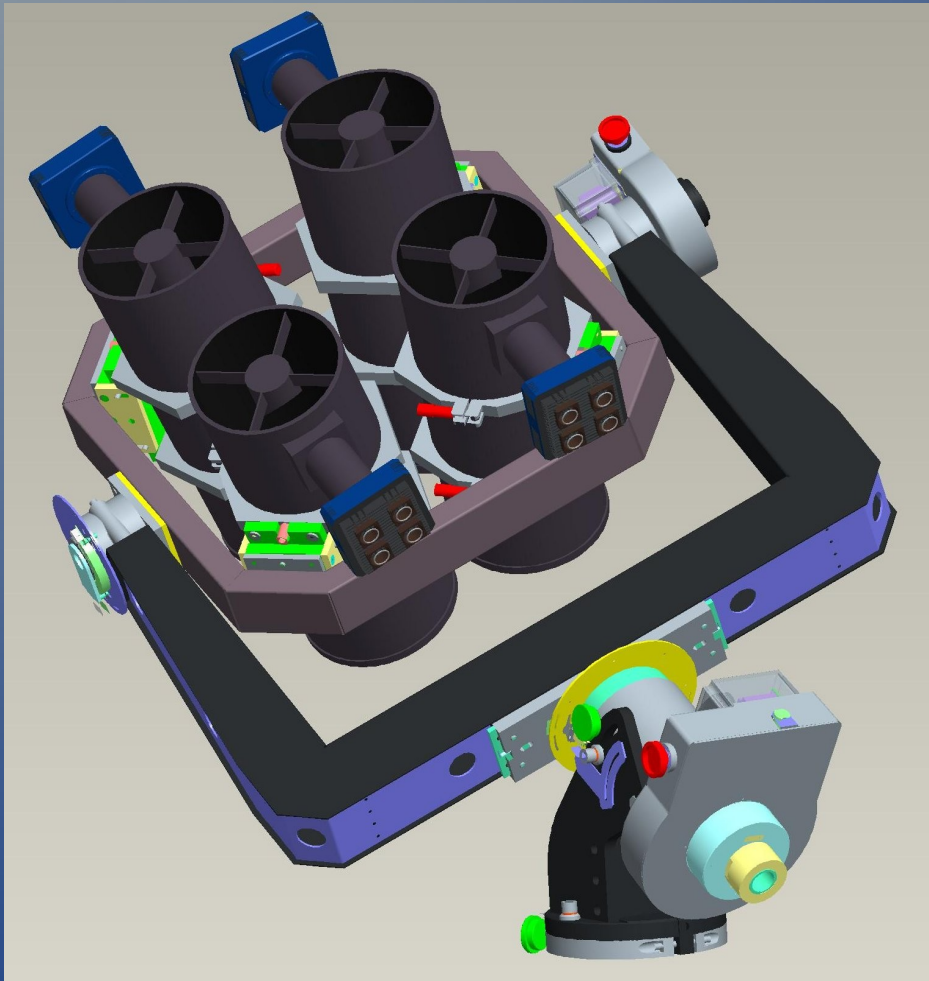
- Master's in Physics
 - Solid-state NMR spectroscopy
- Master's in Economics
 - Information management
- Turned to astronomy in 2006

HAT-South

- Next generation of HATNet
 - Medium depth survey ($R=9-14m$)
 - 24-hour coverage: longer periods
 - Goal: 25 planets/year

- 3 sites :
 - Chile (LCO), Namibia (HESS), Australia (SSO)
 - 2 instruments/site
 - Fully automated

HAT-South instrument



- 2x2 mosaic image
- Takahashi E-180
- Apogee 4K x 4K CCD
- FOV $4^\circ \times 4^\circ$ / detector

- 1% precision, 4 min cadence

Las Campanas, Chile



November 16-17, 2009

RoPaCS meeting

Las Campanas, Chile

HATSouth @ LCO 2009-11-15 07:26:53 (local time)



November 16-17, 2009

RoPaCS meeting

H.E.S.S. Namibia



November 16-17, 2009

RoPaCS meeting

H.E.S.S. Namibia

HATSouth @ Namibia 2009-11-15 11:24:31 (GMT+1 ; no local time zone!)



November 16-17, 2009

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Siding Spring, Australia

HATSouth @ SSO 2009-11-15 21:34:10



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HAT-South tasks

- IT and technical solutions
 - Hardware selection and prototype testing
 - Control computer, node computer, server
 - CCD interface, local network
 - Environmental sensors (GPS, lightning detector, cloud detector, weather station, skycam)
 - Real-time environment (xenomai) + Debian Linux
 - 2008: finalization of configuration (prototype testing)
 - 2009: site installations, first data

Current tasks

- Enhancement of WTS images
 - Step-by-step checking of reduction pipeline
 - Ghost objects
 - Red noise
- Transit sensitivity analysis
 - Future strategy:
 - Continue observing of current fields or change for new ones?