

# European Helio and Astero-seismology Network



[www.helas-eu.org](http://www.helas-eu.org)

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# Co-ordination Action

## Integrating Activity - Research Infrastructures Action - 6FP

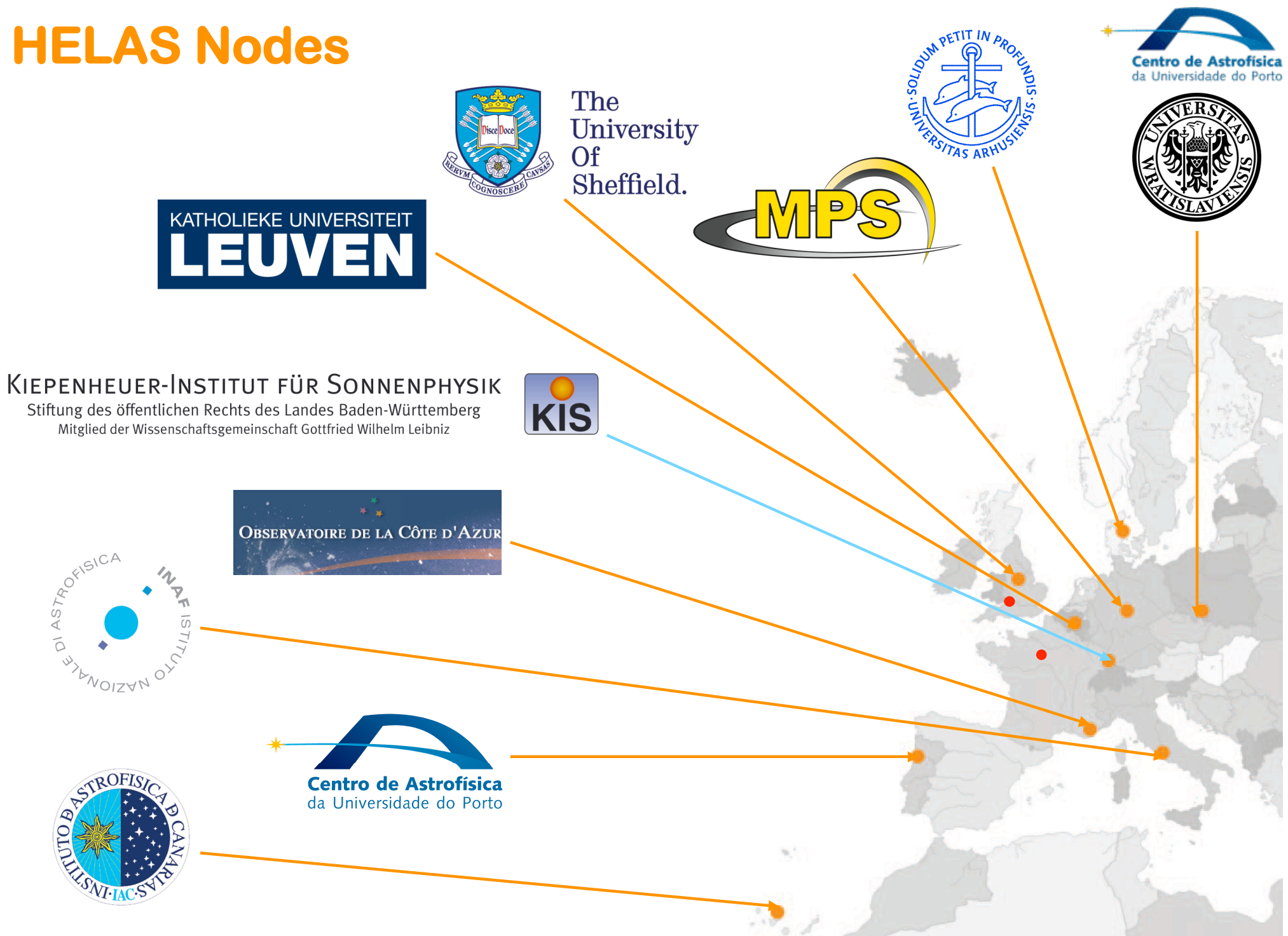
By combining the core competences of the individual research groups through the network activities of HELAS, the goal is to

- ensure European competence and competitiveness in helio- and asteroseismology by spreading expertise,
- increase in volume and quality the European scientific output in this research area,
- enhance the synergy between helio- and asteroseismology,
- improve the public understanding and interest in solar and stellar physics.

The objectives will be achieved by;

- **organizing workshops** of groups within the individual network activities,
- **organizing annual meetings** for a wide international audience,
- supporting **exchange visits** of researchers,
- providing a **platform for the exchange of data and software**.

# HELAS Nodes



KATHOLIEKE UNIVERSITEIT  
**LEUVEN**



The University  
Of  
Sheffield.



KIEPENHEUER-INSTITUT FÜR SONNENPHYSIK  
Stiftung des öffentlichen Rechts des Landes Baden-Württemberg  
Mitglied der Wissenschaftsgemeinschaft Gottfried Wilhelm Leibniz



## NA3 - Global Helioseismology

Elicitation of new exigent problems and coordination of the methods and software developments for global helioseismology; distribution of data analysis tools and solar models.

## NA4 - Local Helioseismology

Identify needs and develop actions for structuring research in local helioseismology. Coordinate development and distribution of specific software to provide Europe with the means to participate in the analysis and interpretation of HMI-SDO data.

## NA5 - Asteroseismology

Develop programmes to ensure European competitiveness on the field of asteroseismology. Comparisons of model and frequency calculations, to improve their reliability. Coordinate stellar modelling software developments and distribution.

# Network Activities II

## NA1 - Management

Overall coordination and management of the consortium, liaison with EC and international research community, project and budget management.

## NA2 - Forum

Organization of annual international meetings on helio- and asteroseismology. Provide a forum for discussing all network activities of HELAS and plans of mutual interest. Generate and exploit synergies between the networks. Distribution of software and data.

## NA6 - Public Outreach

Prepare state-of-the-art university lectures and coordinate actions on the field of helio- and asteroseismology to raise public interest.

The main responsibility for the HELAS consortium will be promoting the coherent use of data, data analysis techniques and stellar models in Helio and Astero-Seismology.

## NA2 - Forum

CoRoT 1st Conference, Paris 2008 (IvS+Meudon)

## NA3 - Global Helioseismology

- Solar models and modelling tools (CAUP)
- Asteroseismology software package based on global helioseismology tools (UoS)

## NA5 - Asteroseismology

- Workshop on the future of Asteroseismology (IvS) ✓
- Workshop on stellar evolution codes (CAUP) ✓ CoRoT/ESTA
- Stellar models and modelling tools (IvS+CAUP)
- Documented data, data analysis tools, tests and comparisons (IvS+CAUP+IAUWr+IFA)
- Workshop on interpretation of asteroseismic data (IAUWr)
- Workshop on synergies between solar/stellar modelling (INAF)