

Conference schedule

Monday 1st September

9:00-9:10 Welcome, Laurent Gizon.

[Ongoing and Future Projects](#) Chair: Hannah Schunker

9:10-9:30 *SDO, HMI and JSOC progress and status*, Phil Scherrer.

9:30-9:50 *HMI local helioseismology data: status and prospects*, Richard Bogart.

9:50-10:10 *GONG status and results*, Frank Hill.

10:10-10:40 **Coffee & posters**

10:40-11:00 *The Sun as a star: insights from BiSON, Kepler and CoRoT*, Guy Davies.

11:00-11:20 *Helioseismology with Solar Orbiter*, Björn Löptien.

11:20-11:40 *The OPAC International Consortium*,

Sylvaine Turck-Chièze

11:40-12:00 *SPRING: A new ground-based network for synoptic solar observations*, Markus Roth.

12:00 **Group picture**

12:15 **Lunch at Restaurant Alte Remise**

[Convection and Dynamics](#) Chair: Michael J. Thompson

14:00-14:20 *Radial gradient of the near-surface shear layer of the Sun*, Atefeh Barekat.

14:20-14:40 *Interaction of waves with solar convection*, Jesper Schou.

14:40-15:00 *Imaging convection in the solar interior*, Shrahan Hanasoge.

15:00-15:20 *Surface flow fields*, Michal Švanda.

15:20-15:50 **Coffee & posters**

15:50-16:10 *Spatially resolved vorticity in supergranulation with helioseismology*, Jan Langfeller.

16:10-16:30 *Inversion of the two-point velocity correlations on the Sun's surface*, Damien Fournier.

16:30-16:50 *The existence of the A effect in the solar convection zone as indicated by SDO observations*, Günther Rüdiger.

Tuesday 2nd September

[Active Regions](#) Chair: Markus Roth

9:00-9:20 *Catalogue of emerging active regions observed by HMI (May 2010 – Dec 2012)*, Hannah Schunker.

9:20-9:40 *Near-surface flows associated with evolving active regions*, Aaron C. Birch.

9:40-10:00 *Horizontal flows in active regions from multi-spectral observations of SDO*, Sushanta C. Tripathy.

10:00-10:40 **Coffee & posters**

10:40-11:00 *Can the seismology of active regions be decoupled from the chromosphere?*, Paul Cally.

11:00-11:20 *F-mode signal from localized magnetic flux concentrations*, Axel Brandenburg.

11:20-11:40 *What can we learn from directional time-distance probing of solar magnetic regions?*, Hamed Moradi.

11:40-12:00 *Spectropolarimetric signatures of mode conversion in simulated sunspots*, Sergiy Shelyag.

12:15 **Lunch at Restaurant Alte Remise**

[The Solar Cycle](#) Chair: Paul Cally

14:00-14:20 *Insights into the solar cycle from global helioseismology*, Anne-Marie Broomhall.

14:20-14:40 *Activity, rotation and stellar ages using Kepler*, Timo Reinhold.

14:40-15:00 *Observational constraints on the solar dynamo*, Robert Cameron.

15:00-15:20 *Probing the solar interior on multiple timescales using global helioseismology*, Ed Rhodes.

15:20-15:50 **Coffee & posters**

15:50-16:10 *Magnetic fields at the base of solar convection zone*, Dean-Yi Chou.

16:10-16:30 *Solar rotation during cycles 23 and 24*, H. M. Antia.

16:30-16:50 *Simulations modeling global turbulent convective dynamos of the Sun with and without coronal envelope*, Jörn Warnecke.

Wednesday 3rd September

[The Legacy of Irene González Hernández](#) Chair: F. Hill

9:00-9:20 *Farside maps and space weather forecasting*, Frank Hill.

9:20-9:40 *Pioneering work on ring-diagram analysis with Irene González Hernández*, Jesús Patrón.

9:40-10:00 *Seismic mapping of the Sun's far hemisphere*, Charles Lindsey.

10:00-10:40 **Coffee & posters**

10:40-11:00 *Farside imaging with time-distance helioseismology*, Junwei Zhao.

11:00-11:20 *Local helioseismic investigation of emerging active regions*, Douglas Braun.

11:20-11:40 *Solar-cycle variation of subsurface flows derived from GONG and SDO/HMI*, Rudolf Komm.

11:40-12:00 *Persistent near-surface flow structures from ring-diagram analysis of GONG and HMI data*, Rachel Howe.

12:00 **Packed lunch (MPS lobby)**

[Excursion to Kassel Wilhelmshöhe](#)

12:45 Bus leaves at MPS

14:30 Start of the water displays at the Herkules monument

16:45 Group picture at the Löwenburg

17:00 Guided tour through the Löwenburg

18:30 **Conference dinner at Restaurant Elfbuchen, Kassel**

22:00 Bus transfer back to Göttingen

Thursday 4th September

[SPACEINN Workshop: Systematics](#) Chair: K. Nagashima

9:00-9:30 *What can we learn about the solar subsurface large scale flows from accurate high-degree modes frequencies?*, Sylvain Korzennik.

9:30-10:00 *A new time-distance measurement of meridional circulation that is not susceptible to center-to-limb effects*, Thomas L. Duvall Jr.

10:00-10:40 **Coffee & posters**

10:40-11:00 *Medium-degree analysis of Mount Wilson data*, Timothy Larson.

11:00-11:20 *SDO/HMI multi-height velocity measurements*, Kaori Nagashima.

11:20-11:40 *Extension to spherical geometry: sensitivity kernels for flows in time-distance helioseismology*, Vincent Böning.

11:40-12:00 *Distortion of global mode eigenfunctions*, Ariane Schad.

12:15 **Lunch at Restaurant Alte Remise**

[Solar structure](#) Chair: Sylvaine Turck-Chièze

14:00-14:20 *Solar structure as seen by high-degree modes*, Maria Cristina Rabello Soares.

14:20-14:40 *Seismic diagnostics of the equation of state and element abundances in the solar envelope*, Sergei Vorontsov.

14:40-15:00 *On the possibility of constructing solar model with helioseismic convection zone*, Sergey Ayukov.

15:00-15:20 *Evidence of early solar evolution in the tachocline and overshooting region below the present convective zone*, Vladimir Baturin.

15:20-15:50 **Coffee & posters**

[Asteroseismology](#)

15:50-16:10 *Low-degree and low-order global seismology of the Sun and stars*, Rafael A. Garcia.

16:10-16:30 *Rotation of KIC 11145123*, Takashi Sekii.

16:30-16:50 *Near-surface effects*, Warrick Ball.

Friday 5th September

Ways Forward Chair: Bernhard Fleck

9:00-9:20 *Turbulent convection in the laboratory*,
Katepalli Sreenivasan.

9:20-9:40 *Sunspot seismology*, Hannah Schunker.

9:40-10:00 *Modeling solar dynamics*, Manfred Küker.

10:00-10:40 **Coffee & posters**

10:40-11:00 *Trends in theoretical helioseismology*,
Laurent Gizon.

11:00-11:20 *Future of observational helioseismology*,
Jesper Schou.

11:20-11:40 *Prospects for asteroseismology of solar-type stars*,
Thierry Appourchaux.

11:40-12:00 *Conference summary*, Michael J. Thompson.

12:15 **Lunch at Restaurant Alte Remise**

Bus information

Intercity hotel/Train station ↔ MPS

- Take **line 51** from **Bahnhof D** to **Kellnerweg**.

Alternatives (a bit more walking):

- **Line 8** from **Bahnhof D** to **Helleweg**
(direction “Weende Ost”),
- **Line 12** from **Bahnhof D** to **Im Hassel**.

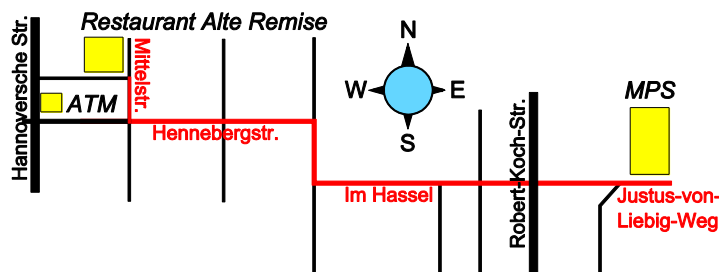
Note: Line 8 also goes to the city center (get off e.g. at the bus stop “Markt”).

Lunch venue (lunch starts 12:15)

Restaurant Alte Remise

Mittelstraße 3a, 37077 Göttingen

Phone: +49 551 380 777



Contact information

Conference venue:

Max-Planck-Institut für Sonnensystemforschung
Justus-von-Liebig-Weg 3, 37077 Göttingen
Phone: +49 551 384 979 0

Hotel:

InterCityHotel Göttingen
Bahnhofsallee 1a, 37081 Göttingen
Phone: +49 551 5211 0

Tourist office:

Tourist-Information Göttingen
Altes Rathaus (Old Town Hall)
Markt 9, 37073 Göttingen
Phone: +49 551 499 80 0

Emergency phone (police, fire, ambulance): 112

Taxi cab phone: +49 551 34034, +49 551 34005

Conference website:

<http://www2.mps.mpg.de/projects/seismo/HELASVI/>

Organizing Committee

Matthias Ammler-von Eiff (MPS)	Jan Langfellner (IAG)
Aaron C. Birch (MPS)	Kaori Nagashima (MPS)
Sabine Deutsch (MPS)	Markus Roth (KIS)
Bernhard Fleck (ESA)	Hannah Schunker (MPS)
Laurent Gizon (Chair, MPS & IAG)	Michael J. Thompson (HAO)
Frank Hill (NSO)	

Some useful German phrases:

Hello/Goodbye/Excuse me – *Hallo/Tschüss/Entschuldigung*

Thank you/You're welcome (please) – *Danke/Bitte*

Good morning/Good night – *Guten Morgen/Gute Nacht*

Do you speak English? – *Sprechen Sie Englisch?*

How are you?/I am fine – *Wie geht es Ihnen?/Es geht mir gut*

How much does that cost? – *Wie viel kostet das?*

Where is the restroom/the taxi stop? – *Wo ist die Toilette/der Taxi-Stand?*

Help!/Emergency – *Hilfe!/Notfall*

I am sick/I have a cold – *Ich bin krank/Ich bin erkältet*

Note: If you are sick, you can find English-speaking doctors at the university hospital (“Klinikum”, Robert-Koch-Straße 40).

I want to pay the bill, please – *Ich möchte bezahlen, bitte*

I would like a beer/a coffee – *Ich möchte ein Bier/einen Kaffee*

A cup of tea/a glass of wine – *eine Tasse Tee/ein Glas Wein*

Sausage/potatoes/mushrooms – *Wurst/Kartoffeln/Pilze*

Is there something vegetarian? – *Gibt es etwas Vegetarisches?*

Note: Tipping in Germany (in restaurants, taxis, etc.) usually consists of just rounding up.

HELAS VI SOHO 28 SPACEINN

Helioseismology and Applications

1-5 September 2014
Göttingen, Germany

