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## Program

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08:30 - 09:00 Registration

09:00 - 09:15 Welcome

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### Tuesday, 09:15-10:45 Chromospheric and Coronal Magnetic Fields I

Chair: Sami Solanki

09:15 - 10:00 **Eugene N. Parker** (keynote lecture)

The solar X-ray corona: consequence of an untidy magnetic topology ..... 1

10:00 - 10:30 **Steve Tomczyk** (invited)

Coronal Magnetic Field Measurements - Optical/IR ..... 2

10:30 - 10:45 **Maxim Kramar**

On the reconstruction of the coronal magnetic field from coronal Hanle / Zeeman observations. .... 3

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10:45 - 11:30 Coffee and poster setup

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### Tuesday, 11:30 - 12:30 Chromospheric and Coronal Magnetic Fields II

Chair: Bernhard Fleck

11:30 - 12:00 **Nour-Eddine Raouafi** (invited)

Measurement Methods of Chromospheric and Coronal Magnetic Fields ..... 4

12:00 - 12:15 **Javier Trujillo Bueno**

A Novel Diagnostic Window on Cosmic Magnetic Fields and its Application to the Magnetism of the Solar Atmosphere ..... 5

12:15 - 12:30 **Achim Gandorfer**

UV Polarimetry of the Second Solar Spectrum ..... 6

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12:30 - 14:00 Lunch

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### Tuesday, 14:00 - 15:15 Chromospheric and Coronal Magnetic Fields III

Chair: Franz Kneer

14:00 - 14:30 **Andreas Lagg** (invited)

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14:30 - 14:45 **Thomas Wiegmann**

Magnetic loops: A comparison of extrapolations from the photosphere with chromospheric measurements ..... 8

14:45 - 15:00 **Horst Balthasar**

The vertical component of electric current densities in sunspots ..... 9

**15:00 - 15:15 Thorsten A. Carroll**

Line formation in inhomogeneous magnetic fields and its implication for the magnetic flux in internetwork regions ..... **10**

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**15:15 - 16:00** Coffee and posters

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**Tuesday, 16:00 - 18:00 Chromospheric and Coronal Magnetic Fields IV****Chair:** Mats Carlsson**16:00 - 16:30 Stephen White** (invited)

Radio Measurements of Coronal Magnetic Fields ..... **11**

**16:30 - 16:45 Gemma Attrill**

Magnetic Fields in Coronal Dimming Regions ..... **12**

**16:45 - 17:15 Thomas Neukirch** (invited)

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**17:15 - 17:30 Stephane Regnier**

Describing Coronal Magnetic Fields by Successive Force-free Equilibria ..... **14**

**17:30 - 17:45 Eckart Marsch**

Solar wind origin in coronal funnels and correlation heights of the sources of solar ultraviolet emission ..... **15**

**17:45 - 18:00 Hardi Peter**

Coronal heating through braiding of magnetic field lines ..... **16**

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**18:00 Posters and reception at MPS**

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**Wednesday, 09:00 - 10:45****Coupling to the Photosphere I****Chair:** Manfred Schuessler

<b>09:00 - 09:30</b>	<b>Hector Socas-Navarro</b> (invited)	
	Magnetic Fields in the Solar Photosphere: Current Understanding and Future Prospects	<b>17</b>
<b>09:30 - 09:45</b>	<b>Jorrit Leenaarts</b>	
	Observations and simulations of bright points in the wing of $H\alpha$ .....	<b>18</b>
<b>09:45 - 10:00</b>	<b>Valentin Martinez Pillet</b>	
	Magnetic flux losses from an active region and related coronal activity .....	<b>19</b>
<b>10:00 - 10:15</b>	<b>Sven Wedemeyer-Böhm</b>	
	Carbon monoxide in the magnetic chromosphere .....	<b>20</b>
<b>10:15 - 10:45</b>	<b>Mei Zhang</b> (invited)	
	Magnetic Network and Canopy .....	<b>21</b>

**10:45 - 11:30** Coffee and posters**Wednesday, 11:30 - 12:30****Coupling to the Photosphere II****Chair:** Javier Trujillo Bueno

<b>11:30 - 12:00</b>	<b>Adriaan van Ballegoijen</b> (invited)	
	Magnetic Structure of Solar Prominences .....	<b>22</b>
<b>12:00 - 12:15</b>	<b>Laura Merenda</b>	
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	Evidence of photospheric magnetic dips in filament channel .....	<b>24</b>

**12:30 - 12:45** Conference picture in front of the institute**12:45 - 14:00** Lunch**Wednesday, 14:00 - 15:15****Coupling to the Photosphere III****Chair:** Spiro Antiochos

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<b>14:30 - 15:00</b>	<b>Pascal Demoulin</b> (invited)	
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**15:00 - 15:15    Rekha Jain**  
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**15:15 - 16:00    Coffee and posters**

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**Wednesday, 16:00 - 17:45** **Coupling to the Photosphere IV**  
Chair: Tetsuya Magara

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**16:30 - 16:45    Tohru Shimizu**  
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**16:45 - 17:15    Yuhong Fan (invited)**  
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**17:15 - 17:30    Klaus Galsgaard**  
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**17:30 - 17:45    Tibor Török**  
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**18:00            Barbecue**

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**Thursday, 09:00 - 10:45****Magnetic Structures I****Chair:** Stephen White

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**10:45 - 11:30** Coffee and posters
**Thursday, 11:30 - 12:30****Magnetic Instabilities I****Chair:** Eric Priest

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**12:30 - 14:00** Lunch
**Thursday, 14:00 - 15:15****Magnetic Instabilities II****Chair:** Pascal Demoulin

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**15:15 - 16:00** Coffee and posters

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**Thursday, 16:00 - 16:45**

**Magnetic Instabilities III**

**Chair:** Adriaan van Ballegoijen

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**Conference Dinner**

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**Friday, 09:00 - 10:30 Chromospheric and Coronal Seismology I****Chair:** Eckart Marsch

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**10:30 - 11:00** Coffee and posters

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**Friday, 11:00 - 12:30 Chromospheric and Coronal Seismology II****Chair:** Valery Nakariakov

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**12:00 - 12:30** **Summary by Eric Priest**

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