

***From the Outer Heliosphere to the Local Bubble:  
Comparison of New Observations with Theory***

ISSI, Bern, 15-19 October 2007

**Monday, 15 October 2007**

08:00-09:00	Registration		
09:00-09:15	Rudolf von Steiger	Welcome / About ISSI	Chair: von Steiger
09:15-09:30	Jeff Linsky	Workshop introduction	
Question #6: What are the dominant physical processes in the termination shock and the inner heliosheath?			
09:30-10:00	John Richardson	The distant solar wind	
10:00-10:30	Randy Jokipii	Magnetic field structure in the heliosheath: theory	Jokipii
10:30-11:00	Coffee		
11:00-11:30	André Balogh	Magnetic field structure in the heliosphere: observations	
11:30-12:00	Vladimir Florinski	Pickup ion acceleration and evolution in the heliosheath and termination shock	
12:00-12:30	Dave McComas	Energetic Neutral Atoms imaging of the inner heliosheath	Balogh
12:30-14:00	Lunch		
Question #4: What are the three dimensional shape and structure of the dynamic heliosphere?			
14:00-14:45	Ed Stone	What are the three dimensional shape and structure of the dynamic heliosphere?	
14:45-15:15	Brian Wood	Constraints on the structure of the heliosphere interface based on Lyman-alpha absorption spectra	Balogh
15:15-15:45	Nick Pogorelov	Influence of the interstellar magnetic field and neutrals on the shape of the outer heliosphere	
15:45-16:15	Tea		
16:15-17:30		Splinter Sessions #1 - #7	
17:30-	Welcome drink		

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Question #2: How is the ISM inside the heliosphere related to the ISM outside the heliosphere?

09:00-09:45	Priscilla Frisch	How is the ISM inside the heliosphere related to the ISM outside the heliosphere?	Chair: Stone
09:45-10:30	Vlad Izmodenov	Inferences on the local interstellar parameters from observations inside the heliosphere	
10:30-11:00	<i>Coffee</i>		
11:00-11:30	Eric Quémerais	Backscattered Lyman-alpha observations from SOHO/SWAN and the Voyagers	Izmodenov
11:30-12:00	George Gloeckler	Ulysses and ACE observations of pickup ions and their interpretation: observations	
12:00-12:30	Maciej Bzowski	Ulysses and ACE observations of pickup ions and their interpretation: theory	
12:30-14:00	<i>Lunch</i>		

Question #5: What are the origin and physical properties of the clump of very local ISM?

14:00-14:30	Jonathan Slavin	What are the origin and physical properties of the clump of very local ISM? - theory	McComas
14:30-15:00	Seth Redfield	What are the origin and physical properties of the clump of very local ISM? - observations	
15:00-15:30	Harald Krüger	Dust inside and outside the heliosphere	
15:30-16:00	<i>Tea</i>		
16:00-16:30	Bruce Draine	Theoretical perspectives on dust inside and outside of the heliosphere	
16:30-17:30		Splinter Sessions #1 - #7	

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**Wednesday, 17 October 2007**

Question #3: What are the energy and pressure balances in the Local Bubble?

09:00-09:45	Ed Jenkins	What are the energy and pressure balances in the Local Bubble?	Chair: Slavín
09:45-10:15	Dimitra Koutroumpa	Charge transfer induced soft X-ray emission from the heliosheath	
10:15-10:45	Coffee		
10:45-11:15	Robin Shelton	Is there hot gas in the Local Bubble and what are its properties?	Jenkins
11:15-11:45	Barry Welsh	Interrelationships of hot and warm gas in the very local ISM	
11:45-14:00	Lunch		
14:00	Excursion to Spiez on the Lake of Thun, visit of the 13 <sup>th</sup> century castle		
18:30	Dinner at Hotel Belvedere, Spiez		
22:30 ca.	Return to Bern		



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**Thursday, 18 October 2007**

Question #1: What physical processes drive the multiphase interstellar medium in the Local Bubble?

09:00-09:45	Dietrich Breitschwerdt (rep. by Miguel de Avillez)	What physical processes drive the multiphase interstellar medium in the Local Bubble?	Chair: Möbius
09:45-10:15	Steven Spangler	Turbulence in the local ISM and Local Bubble	
10:15-10:45	<i>Coffee</i>		
10:45-11:15	Steve Snowden	What can be learned from X-ray spectroscopy concerning hot gas in the Local Bubble and charge exchange processes?	Spangler
11:15-11:45	Snezana Stanimirovic	Ultrascale structure in the Local Bubble	
11:45-12:15	Miguel de Avillez	Stability of interstellar clouds in the Local Bubble	
12:15-14:00	<i>Lunch</i>		

Question #7: What are the roles that magnetic fields play in the Local Bubble and its constituents?

14:00-14:30	Merav Opher	Role of magnetic fields in shaping the three dimensional models of the heliosphere	Lallement
14:30-15:00	Alex Lazarian	Magnetohydrodynamic turbulence and its effects on the interstellar medium	
15:00-15:30	<i>Tea</i>		
15:30-15:55		Splinter report #1	
15:55-16:20		Splinter report #2	
16:20-16:45		Splinter report #3	

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**Friday, 19 October 2007**

09:00-09:25		Splinter report #4	Chair: Frisch
09:25-09:50		Splinter report #5	
09:50-10:15		Splinter report #6	
10:15-10:40		Splinter report #7	
10:40-11:10	<i>Coffee</i>		
11:10-11:55	Hans-Reinhard Mueller	The heliosphere in time	Opher
11:55-12:40	Rosine Lallement	Origin and Evolution of the Local Bubble	
12:40-14:00	<i>Lunch</i>		
14:00-14:45	Burkhard Fuchs	Beyond the Local Bubble	Linsky
14:45-15:30	Vladimir Baranov	Challenges in modeling the heliospheric/ISM interface	
15:30-16:00	Eberhard Möbius	Workshop summary	