

## **Monday, June 6**

### **Global Magnetosphere Theory and Simulation**

Chair: Alice Harding

9:15	Welcome	
9:30	Spitkovsky	Numerical modeling of pulsar magnetospheres: from force-free to particles
10:05	Philippov	How do pulsars shine?
10:40	Discussion	
11:00	Break	
11:30	Contopoulos	The Aristotelian Equatorial Current Sheet
12:05	Discussion	
12:30	Lunch	
		Chair: Demos Kazanas
2:00	Timokhin	How much plasma can a pulsar make?
2:35	Belyaev	Pulsar Polar Cap and Y-point in PIC Simulations
3:10	Discussion	
3:30	Break	
4:00	Kalapocharakos	Towards the Understanding of the Gamma-ray Emission in Pulsar Magnetospheres: Models vs Fermi
4:35	Brambilla	Developing a specialized Particle-In-Cell code to study Pulsar Magnetospheres
5:10	Discussion	

## **Tuesday, June 7**

### **Mode Changing and Variability**

Chair: Andrey Timokhin

9:00	Rankin	Radio pulsar phenomenology I : Geometry, Emission Heights and Identification of X and O modes
9:35	Mitra	Radio pulsar phenomenology II : Drifting Subpulses
10:10	Discussion	
10:30	Break	
11:00	Melkidze	Coherent Radio emission, PSG model and Drifting subpulses
11:35	Hermsen	The mystery of simultaneous pulsar moding in the X-ray and radio bands
12:10	Discussion	
12:30	Lunch	
		Chair: Wim Hermsen
2:00	Van Leeuwen	Pulsar mode changes and subpulse drift
2:15	Szary	A physically justified model of drifting subpulses.
2:30	Discussion	
2:45	Kargaltsev	Is there a useful connection between the pulsar magnetosphere geometry and PWN morphology?
3:05	Break	
3:35	Harding	Pulsar Variability and the Global Magnetosphere
4:10	Wadiasingh	Magnetar polarization
4:25	Arons	Ultra High Energy Cosmic Rays from Magnetars
5:00	Discussion	
7:00	Workshop Dinner	Siri's Chef's Secret, Greenbelt

### **Wednesday, June 8**

#### **Emission Modeling and Magnetic Fields**

Chair: Kostas Kalapotharakos

9:00	Venter	Insights from Pulsar Light Curve Modeling
9:10	Seyffert	Toward a more rigorous statistical goodness of fit test for joint radio and gamma-ray light curve fitting
9:20	Barnard	High-Energy Light Curves in an Offset Polar Cap B-Field Geometry
9:30	Discussion	
9:45	Shibata	X-ray and rotational luminosity correlation and magnetic heating of the radio pulsars

10:15 Discussion

10:25 Break

10:55 Hirotani

Leptonic acceleration in pulsar and black hole magnetospheres

11:30 Petri

Multipolar fields in neutron stars

12:05 Kazanas

Crab GeV Flares: Too much ado about not too much?

12:20 Discussion

12:30 Lunch

Chair: Christo Venter

2:00 Gonthier

Magnetic field decay and unification of young and millisecond pulsar populations

2:30 Grenier

Phase-Resolved Spectroscopy of Millisecond Pulsars

2:45 Discussion

### **Present and Future Missions**

3:00 Johnson

Pulsar Observations with Fermi

3:35 Break

4:05 Arzoumanian

An X-ray Astrophysics Mission Dedicated to Neutron Stars: Capabilities and Status of NICER

4:35 Hunter

Measurement of Gamma-ray Polarization

4:55 Hays

ComPair/AMEGO

5:15 Discussion