

Monday (March 5)

08:15-09:00	"registration"	
09:00-09:10	welcome	
Observations of shocks		
chair: Ralf Kissmann		
09:10-09:45	Isabelle Grenier	Isolated versus collective shock acceleration in the Cygnus X cocoon of cosmic rays
09:50-10:15	Emma de Ona Wilhelmi	Observation of CR acceleration in late-stage of massive stars evolution through gamma rays
10:20-10:45	Rino Bandiera	The interplay between physics and geometry in the Balmer line diagnostics of SNR shocks
10:45-11:20	coffee	
11:25-11:50	Agata Karska	Shocks in protostellar outflows: observational constraints
11:55-12:20	Sladjana Knezevic	Shock precursors in the north-eastern rim of Tycho's supernova remnant
12:25-13:00	Martin Roth	Shock excitation of diffuse ionized gas in NGC300?
13:00-14:10	lunch	
Physical effects at shocks		
chair: Isabelle Grenier		
14:10-14:35	Michael Schulleich	Shock waves inside the Local Bubble
14:40-15:05	Lara Nava	Modeling of particle acceleration and leptonic radiation from external shocks in gamma-ray bursts
15:05-15:40	coffee	
15:40-16:05	Jonathan Mackey	Stability of Ionization-Shock fronts
16:10-16:30	Gottfried Mann	Shocks in the Solar Corona
16:30-17:00	discussion	led by Agata Karska
19:00	dinner	German food, http://www.plantagenklause.de/

Tuesday (March 6)

Microphysics of shocks		
chair: Christoph Pfrommer		
09:00-09:35	Damiano Caprioli	New insights on particle acceleration at non-relativistic shocks
09:40-10:05	Robert Brose	Time-dependent CR feedback on shocks
10:10-10:35	Jacek Niemiec	Kinetic simulations of high-Mach number nonrelativistic shocks - status and challenges
10:35-10:55	coffee	
10:55-11:20	Ralf Kissmann	Particle Acceleration in Colliding-Wind Binaries
11:25-11:50	Brian Reville	Particle acceleration at SNE
11:55-12:20	Artem Bohdan	Turbulent magnetic reconnection at nonrelativistic shocks of young supernova remnants
12:25-13:00	discussion	led by Martin Pohl
13:00-14:00	lunch	
Hydrodynamic shocks and cosmic ray acceleration		
chair: Damiano Caprioli		
14:00-14:25	Christoph Pfrommer	Effective CR acceleration in MHD shocks
14:30-14:45	Matteo Pais	Obliquity dependence of CR acceleration in shocks
14:45-15:10	Philipp Girichidis	CR-driven outflows
15:15-15:30	Georg Winner	Spectral treatment of CR electrons
15:30-16:00	coffee	
16:00-16:25	Michal Hanasz	Coupling energy-dependent transport of cosmic rays to ISM simulations with the Piernik MHD code
16:30-16:55	Thomas Guillet	MHD with Discontinuous Galerkin methods
17:00	discussion	led by Philipp Girichidis
19:00	Workshop dinner	Italien food, http://www.piazza-toscana.de/

Wednesday (March 7)

Astrophysics of shocks		
chair: Michal Hanasz		
09:00-09:25	Marco Padovani	Protostars: Forges of cosmic rays?
09:30-10:05	Anna Rosen	The Formation of Massive Stars with Radiative and Protostellar Outflow Feedback
10:10-10:35	Dominik Derigs	About the entropy consistent ideal GLM-MHD equations
10:35-11:00	coffee	
11:00-11:25	Ralf Klessen	Turbulence in the ISM
11:30-11:45	Tim-Eric Rathjen	Shock transport through the ISM
11:45-12:10	Philipp Gast	Impact of a high Mach number shock on an atomic ISM cloud
12:15-12:40	Richard Wünsch	Resolving the wind bubble
12:45-13:05	Martin Sparre	Shocks in 2D and 3D: Implications for shattering of accelerated gas clouds
13:05-14:00	lunch	
14:00-14:15	Kristian Ehlert	Shocks in AGN jets
14:15-15:00	discussion	led by Thorsten Naab