Program for

The dance of stars
Dense stellar systems from infant to old

MODEST 14

June 2-6, 2014
Physikzentrum Bad Honnef

Note:

- Each talk lasts for 20 minutes (begin/end times indicated in parentheses) followed by 10 minutes discussions
- The names inside square brackets indicate the corresponding session chairs
- Dinner will take place each day 18:30 onwards followed by beer in the cellar of the Physikzentrum
- On Wednesday, we shall have a special dinner (the “Heraeus Abend”) in the cellar

Schedule for “The dance of stars: dense stellar systems from infant to old [MODEST 14]”

Monday, June 2

Welcome and introductory remarks (09:00 - 09:30) [Kroupa, Banerjee]

birth of a star cluster: star-forming/starburst regions and young clusters [de Grijs]

Alison Sills (09:30 - 09:50)
The early evolution of stellar subclusters

Tea/coffee break (10:00 - 10:45)

Wolfgang Brandner (10:45 - 11:05)
Young Massive Star Clusters in the Milky Way

Sambaran Banerjee (11:15 - 11:35)
The formation of the NGC 3603 starburst cluster: monolithic starburst or hierarchical assembly?

Susanne Pfalzner (11:45 - 12:05)
What clusters do we see in the age range 3-10 Myr in the solar neighborhood?

Lunch break (12:15 - 13:45)

multiple stellar populations in globular clusters [Ferraro]

Enrico Vesperini (13:45 - 14:05)
Dynamical Evolution of Multiple Stellar Populations in Globular Clusters

Javier Alonso-Garcia (14:15 - 14:35)
Multiple stellar populations in Galactic globular clusters displayed by the Strömgren system

Giacomo Beccari (14:45 - 15:05)
Multiple stellar populations is massive star-burst clusters

Poster presentations (15:15 - 16:00) [Pfalzner]

Tea/coffee break (16:00 - 16:30)

numerical methods of star-cluster simulations and associated hardware [Giersz]

Fred Rasio (16:30 - 16:50)
Globular Cluster Evolution with Monte Carlo and N-body Methods

Long Wang (17:00 - 17:20)
Acceleration of Nbody6++ and large N-body simulation of globular clusters

Tuesday, June 3

star clusters: structure and dynamical evolution [Pfalzner]

Douglas Heggie (09:00 - 09:20)
The escape rate in isolated systems

Richard de Grijs (09:30 - 09:50)
Rapid dynamical processes in the cores of young star clusters in the Large Magellanic Cloud

Helen Kirk (10:00 - 10:20)
Mass Segregation in Small Clusters

Tea/coffee break (10:30 - 11:15)

influence of external field on cluster evolution [Heggie]

Andreas Küpper (11:15 - 11:35)
The Influence of Eccentric Orbits on Cluster Evolution

Akram Hasani Zonoozi (11:45 - 12:05)
Direct N-body modeling of the young outer halo globular cluster Palomar 4: the eccentric orbit approach

Florent Renaud (12:15 - 12:35)
Simulations of star clusters in evolving galaxies: from infant to old

Lunch break (12:45 - 14:15)

nuclear star clusters [Aharon, Alonso-Garcia]

Roberto Capuzzo Dolcetta (14:15 - 14:35)
Globular Cluster-Massive Black Hole Interaction in Galactic Centers

Pau Amaro Seoane (14:45 - 15:05)
Sculpting the Galactic Center

Tea/coffee break (15:15 - 16:00)

Eugene Vasiliev (16:00 - 16:20)
A new Monte-Carlo method for dynamical evolution of non-spherical stellar systems

Ladislav Subr (16:30 - 16:50)
Two body relaxation of stellar disc around an SMBH

star clusters: chemical enrichment

Melvyn Davies (17:00 - 17:20)
Supernova enrichment and dynamical histories of solar-type stars in clusters

Wednesday, June 4

blue stragglers in globular clusters [Sills]

Francesco Ferraro (09:00 - 09:20)
Blue Straggler Stars in globular clusters as dynamical probes

Arkadiusz Hypki (09:30 - 09:50)
Properties of blue straggler populations in evolving star clusters based on the MOCCA dynamical simulations

Mirko Simunovic (10:00 - 10:20)
The Triple Blue Straggler Star Sequence in NGC 1261: A New Laboratory for Stellar Collision and Blue Straggler Formation Models

Tea/coffee break (10:30 - 11:15)

birth of a star cluster: star-forming/starburst regions and young clusters [De Silva]

Genevieve Parmentier (11:15 - 11:35)
Local-Density Driven Clustered Star Formation: Model and Implications

Soren Larsen (11:45 - 12:05)
The YMC - Globular Cluster link

Carsten Weidner (12:15 - 12:35)
Isolated versus clustered formation of massive stars

Lunch break (12:45 - 14:15)

multiple stellar populations in globular clusters: kinematic signatures [Vesperini]

Alessandra Mastrobuono Battisti (14:15 - 14:35)
Evolution of second generation stars in stellar disks of globular and nuclear clusters

Maureen van den Berg (14:45 - 15:05)
Interacting binary populations in old open and globular clusters as seen by Chandra

Tea/coffee break (15:15 - 16:00)

star clusters: ongoing surveys [Rasio]

Eva K. Grebel (16:00 - 16:20)
The Star Clusters of the Magellanic Clouds

Gayandhi De Silva (16:30 - 16:50)
The GALAH survey

Joachim Vanderbeke (17:00 - 17:20)
Galactic Globular Cluster Catalog (G2C2) and its applications

Andrea Dieball (17:30 - 17:50)
Hunting Brown Dwarfs in Globular Clusters

Thursday, June 5

compact stellar remnants in globular/open clusters [Ivanova, Strader, Davies, Banerjee]

Jay Strader (09:00 - 09:20)
Black holes in Milky Way globular clusters

Matthew Benacquista (09:30 - 09:50)
Globular Clusters as Sources of Gravitational Waves

Tea/coffee break (10:00 - 10:45)

Mirek Giersz (10:45 - 11:05)
Can black holes be formed in dynamic interactions in star clusters?

Sverre Aarseth (11:15 - 11:35)
Tidal disruptions by stellar mass black holes

Christian Knigge (11:45 - 12:05)
Cataclysmic Variables in Globular Clusters

Lunch break (12:15 - 13:45)

Natalia Ivanova (13:45 - 14:05)
Formation of low-mass X-ray binaries in globular clusters

Barbara Lanzoni (14:15 - 14:35)
Searching for IMBHs in Galactic globular clusters

Tea/coffee break (14:45 - 15:30)

Michela Mapelli (15:30 - 15:50)
The impact of three-body encounters on the demographics of X-ray binaries in young star clusters

Thomas Tauris (16:00 - 16:20)
Formation of a triple millisecond pulsar with two white dwarf companions

AMUSEment with many-body systems [Grebel]

Simon Portegies Zwart (16:30 - 16:50)
MODEST with AMUSE

Nora Lützgendorf (17:00 - 17:20)
Testing black-hole accretion from stellar winds in star clusters using AMUSE

Friday, June 6

dwarf galaxies/UCDs: origin and kinematics [Hilker, Kroupa, Pawlowski]

Michael Hilker (09:00 - 09:20)
Ultra-compact dwarf galaxies: observational constraints on their origin

Holger Baumgardt (09:30 - 09:50)
Ultracompact dwarf galaxy formation in cosmological simulations

Tea/coffee break (10:00 - 10:45)

Sylvia Ploeckinger (10:45 - 11:05)
The chemo-dynamical evolution of Tidal Dwarf Galaxies

Steffen Mieske (11:15 - 11:35)
Massive black holes in UCDs as relics of their progenitors? Clues from internal dynamics

Mike Fellhauer (11:45 - 12:05)
Life and death of a hero - Modelling Hercules

Lunch (12:15 - 13:45)

Marcel Pawlowski (13:45 - 14:05)
Globular Clusters in relation to the VPOS of the Milky Way

Jörg Dabringhausen (14:15 - 14:35)
A varying IMF in ultra-compact dwarf galaxies

Ricardo Salinas (14:45 - 15:05)
The initial mass function of bulge clusters

Tea/coffee and poster viewing (15:15 - 16:30)

Concluding remarks (16:30 - 17:00)

Conclusion with Beer (17:00 - 18:30)