

# Programme of the 8th Annual Meeting of the Modelling and Observing Dense Stellar Systems Community

05. – 08. Dec 2007 — Bad Honnef

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Wednesday, 05 Dec.

## Morning

9.00 – 9.10	Pavel Kroupa:	Opening
	<b>Chair: Pavel Kroupa</b>	
9.10 – 9.40	Robert Gutermuth:	<i>Using Spitzer to characterize structure in nearby star-forming regions</i>
9.40 – 9.50		Discussion
9.50 – 10.05	Evghenii Gaburov:	<i>Integrated properties of mass segregated star clusters</i>
10.05 – 10.10		Discussion
10.10 – 10.25	Carsten Weidner:	<i>The maximum-stellar-mass - cluster-mass relation as a result of stellar feedback?</i>
10.25 – 10.30		Discussion
<b>10.30 – 11.10</b>		<b>Coffee + Posters</b>
	<b>Chair: Ata Sarajedini</b>	
11.10 – 11.40	Genevieve Parmentier:	<i>Cluster formation and the initial cluster mass function</i>
11.40 – 11.50		Discussion
11.50 – 12.05	Ingo Thies:	<i>A discontinuity in the low-mass IMF</i>
12.05 – 12.10		Discussion
12.10 – 12.25	Vasilii Gvaramadze:	<i>Runaway OB stars from young star clusters</i>
12.25 – 12.30		Discussion
<b>12.45</b>		<b>Lunch</b>

Wednesday, 05 Dec.

## Afternoon

### Chair: Douglas Heggie

14.15 – 14.45	Susanne Pfalzner:	<i>Massive star binaries in young dense clusters</i>
14.45 – 14.55		Discussion
14.55 – 15.10	Richard Parker:	<i>The dynamical evolution of low-mass multiple systems</i>
15.10 – 15.15		Discussion
15.15 – 15.45	Jamie Lombardi:	<i>Stellar hydrodynamics</i>
15.45 – 15.55		Discussion
15.55 – 16.05	Michael Fellhauer:	<i>Merging sub clumps</i>
16.05 – 16.10		Discussion
<b>16.10 – 17.20</b>		<b>Coffee + Posters</b>

### Chair: Peter Berzcik

17.20 – 17.35	Christoph Olczak:	<i>Young stars in dense clusters - disc evolution from the dynamical perspective</i>
17.35 – 17.40		Discussion
17.40 – 17.55	Ladislav Subr:	<i>Mass segregation</i>
17.55 – 18.00		Discussion
18.00 – 18.15	Peter Anders:	<i>How well do N-body codes compare?</i>
18.15 – 18.20		Discussion
18.20 – 18.35	Thomas Kaczmaek:	<i>Visualisation of nbody simulations with xnbody</i>
18.35 – 18.40		Discussion
<b>19.15</b>		<b>Dinner</b>

Thursday, 06 Dec.

## Morning

**Chair: Genevieve Parmentier**

9.00 – 9.30	Douglas Heggie:	<i>Dynamic evolutionary modelling of the nearest globular clusters - an update</i>
9.30 – 9.40		Discussion
9.40 – 9.55	Jonathan Downing:	<i>Compact-object binaries in star clusters: A post-Newtonian treatment</i>
9.55 – 10.00		Discussion
10.00 – 10.30	Giampaolo Piotto:	<i>Multiple stellar populations in globular clusters: an update</i>
10.30 – 10.40		Discussion
<b>10.40 – 11.15</b>		<b>Coffee + Posters</b>

**Chair: Carsten Weidner**

11.15 – 11.45	Chris Boily:	<i>M/L ratios of young clusters</i>
11.45 – 11.55		Discussion
11.55 – 12.10	Holger Baumgardt:	<i>The effect of initial mass segregation on the evolution of globular clusters</i>
12.10 – 12.15		Discussion
12.15 – 12.30	Veronica Sommariva:	<i>A search for spectroscopic binaries in the globular cluster M4</i>
12.30 – 12.35		Discussion
12.35 – 12.40	Giampaolo Piotto:	<i>Photometric binaries in globular clusters</i>

**Conference Photo**

**12.45** **Lunch**

Thursday, 06 Dec.

## Afternoon

### Chair: Giampaolo Piotto

- 14.15 – 14.45 Ata Sarajedini: *ACS survey of Galactic globular clusters*  
14.45 – 14.55 Discussion  
14.55 – 15.10 Elizabeth Wehner: *The globular cluster system of the Hydra cD Galaxy, NGC 3311*  
15.10 – 15.15 Discussion  
15.15 – 15.30 Thibaut Decressin: *Impact of fast rotating massive stars on the formation of globular clusters*  
15.30 – 15.35 Discussion  
15.35 – 16.05 Steve McMillan: *Introduction to the MUSE project*  
16.05 – 16.15 Discussion  
**16.15 – 16.45 Coffee + Posters**

### Chair: Chris Boily

- 16.45 – 17.15 Michael Hilker: *Mass modelling of ultra-compact dwarf galaxies*  
17.15 – 17.25 Discussion  
17.25 – 17.40 Steffen Mieske: *High dynamical M/L ratios of UCDs: dark matter or extreme IMF?*  
17.40 – 17.45 Discussion  
17.45 – 18.15 Katrin Jordi: *Classical or Modified Newtonian Dynamics? Testing MOND in Palomar 14*  
18.15 – 18.25 Discussion  
**19.15 Dinner**

**21.00 – 21.30 Piano concert by Paul Geffert**  
(canceled due to illness)

Friday, 07 Dec.

## Morning

**Chair: Michael Hilker**

9.00 – 9.30	Sungsoo Kim:	<i>The mass function of the Arches cluster at the Galactic center</i>
9.30 – 9.40		Discussion
9.40 – 9.55	Andreas Ernst:	<i>The young stars in the galactic center - remains of a dissolved cluster?</i>
9.55 – 10.00		Discussion
10.00 – 10.15	Ulf Löckmann:	<i>Dynamics of Stellar Discs in the Galactic Centre</i>
10.15 – 10.20		Discussion
<b>10.20 – 11.15</b>		<b>Coffee + Posters</b>

**Chair: Susanne Pfalzner**

11.15 – 11.30	Ernst Paunzen:	<i>WEBDA and SCYON, observations meet models</i>
11.30 – 11.35		<i>Discussion</i>
11.35 – 12.05	Simon Portegies Zwart:	<i>MUSE related</i>
12.05 – 12.15		Discussion
<b>12.45</b>		<b>Lunch</b>

## MUSE time

Friday, 07 Dec.

**Afternoon**

**16.00 – 16.30**

**Coffee + Posters**

**Chair: Steffen Mieske**

16.30 – 17.00 Sverre Aarseth:

*New developments (new NBODY6 release!)*

17.00 – 17.10

Discussion

17.10 – 17.25 Paolo Miocchi:

*Globular clusters merging in the central galactic regions*

17.25 – 17.30

Discussion

17.30 – 17.45 Ylva Schuberth:

*Globular clusters as dynamical probes: Dark matter in NGC 1399 and NGC 4636?*

17.45 – 17.50

Discussion

17.50 – 18.20 Piet Hut:

*Online 3D virtual worlds as collaboration tools*

18.20 – 18.30

Discussion

**19.15**

**Dinner**

Saturday, 08 Dec.

## Morning

**Chair: Jamie Lombardi**

9.00 – 9.30	Rainer Spurzem:	<i>Post-Newtonian relativistic dynamics and gravitational waves from dense stellar systems</i>
9.30 – 9.40		Discussion
9.40 – 9.55	Mario Pasquato:	<i>On the fundamental plane of the globular cluster system</i>
9.55 – 10.00		Discussion
10.00 – 10.15	Stefan Harfst:	<i>N-body simulations with MUSE</i>
10.15 – 10.20		Discussion
<b>10.20 – 11.00</b>		<b>Coffee + Posters</b>
11.00 – 12.45		<b>MUSE time / Aarseth demo of NBODY6 in lecture theatre</b>
<b>12.45</b>		<b>Lunch</b>

## Afternoon

14.15 – 16.30	<b>MUSE time</b>
<b>16.30 – 17.00</b>	<b>Coffee + Posters</b>
17.00	Christmas market in Bonn. No dinner at the Physics Center