

(S) = student (10+5 minutes), all other talks 20+5 minutes (Programme Version: 22.05.09)

May 24th, Sunday:

Arrival and dinner in the Physics Centre. It is possible to arrive on Saturday.

May 25th, Monday

Satellite and tidal dwarf galaxies as probes of fundamental physics

How do structures form and evolve? How is the dark and baryonic matter arranged? How are dwarf galaxies distributed? Tidal tails and TDGs as probes of dark matter / gravity. TDGs versus missing satellites.

CHAIR: PAVEL KROUPA:

9:00 - 9:15: Pavel Kroupa: Welcome and motivation

9:15 - 9:45: Pierre-Alain Duc: The quest for old tidal dwarf galaxies

9:45 - 10:15: Juerg Diemand: Substructures in cold dark matter halos

10:15 - 10:30: (S) Tomoaki Ishiyama: Variation of the subhalo abundance in dark matter halos

10:30 - 11:00: Thorsten Lisker: Can the majority of Virgo cluster early-type dwarfs be of tidal origin?

.....morning COFFEE (11:00 - 11:30)

CHAIR: PIERRE-ALAIN DUC:

11:30 - 12:00: Eva Grebel: The dwarf galaxy population

12:00 - 12:15: (S) Joe Wolf: Modeling mass independent of anisotropy: A comparison between Andromeda and Milky Way satellites

12:15 - 12:30: (S) Daniele Fantin: Modelling ultra-fine structure in dark matter halos

12:30 - 13:00: Benoit Famaey: A review of the Modified Newtonian Dynamics phenomenology

.....Monday LUNCH (13:15 - 14:30)

CHAIR: DUNCAN FORBES:

14:30 - 15:00: Mark Wilkinson: Dwarf galaxies of the Local Group

15:30 - 15:45: (S) Xufen Wu: The stability of dwarf elliptical galaxies in MOND

15:45 - 16:15: Hosein Haghi: Testing fundamental physics with distant star clusters

.....afternoon TEA (16:15 - 16:45)

CHAIR: JÜRIG DIEMAND:

16:45 - 17:15: Hans-Walter Rix: Is there a Lower Mass Limit to Galaxy Formation?

17:15 - 17:45: Jorge Penarrubia: Tidal disruption of Globular Clusters in triaxial dwarf galaxies

17:45 - 18:30: Hong Sheng Zhao: Dark Fluid: a reconciliation/extension of Dark Energy, CDM and MOND?

..... Monday DINNER in the Centre (19:00)

May 26th, Tuesday

CHAIR: MARK WILKINSON:

9:00 - 9:30: Justin Read: Satellites and star clusters in a cold dark matter universe

9:30 - 10:00: Sukyoung Yi: Satellite overquenching problem

10:00 - 10:30: Garry Angus: The Milky Way dwarf spheroidals in MOND

..... morning **COFFEE (10:30 - 11:00)**

NEW SESSION: Galaxy-galaxy encounters, tidal tails and the formation of TDGs

How frequent are gas-rich galaxy-galaxy encounters? How are the angular momentum and the energy carried away? How many TDGs can form per tidal tail? Do numerical tidal tails fragment artificially? Which observational evidence is there for the formation of TDGs?

CHAIR: HONGSHENG ZHAO:

11:00 - 11:30: Christian Theis: Are compressive tides responsible for the Antennae's firework?

11:30 - 12:00: Baerbel Koribalski: HI in interacting galaxies

12:00 - 12:30: Beverly Smith: GALEX-discovered Tidal Dwarf Galaxies in the Spirals, Bridges, and Tails Interacting Galaxy Survey

..... Tuesday **LUNCH (12:45 - 14:15)**

CHAIR: JORGE PENARRUBIA:

14:15 - 14:45: Claudia Mendes de Oliveira: Observational evidence for formation of TDGs and intergalactic HII regions in compact groups and around interacting galaxies

14:45 - 15:15: Angel R. Lopez-Sanchez: Tidal tails and TDG candidates in blue compact dwarf galaxies

15:15 - 15:30: (S) Yun-Kyeong Sheen: TDG formation in action captured from NGC 4922

15:30 - 16:00: Michael Fellhauer: Modelling Tidal Dwarf Galaxies

.....afternoon **TEA (16:00 - 16:30)**

CHAIR: THORSTEN LISKER:

16:30 - 17:00: Igor D. Karachentsev: Tidal dwarfs in nearby galaxy groups

17:00 - 17:30: Luis Colina: TDG candidates in (ultra)luminous infrared galaxies

17:30 - 17:45: (S) Ylva Schuberth: A tidally formed stream near the cD galaxy of the Fornax galaxy cluster?

..... Tuesday **DINNER in the Centre (18:15)**

May 27th, Wednesday

CHAIR: BAERBEL KORIBALSKI:

9:00 - 9:30: Jay Gallagher III: Tidal Interactions and the Evolution of Companion Galaxies

9:30 - 10:00: Erik Muller: Molecular clouds in the tidal filament, Magellanic Bridge - a putative TDG?

10:00 - 10:30: Olivier Turet: Galactic dynamics and galaxy interactions in MOND

.....**morning COFFEE (10:30 - 11:30)**

CHAIR: CLAUDIA MENDES DE OLIVEIRA:

11:30 - 12:00: Frederic Bournaud: Simulating tidal dwarf galaxies to understand their formation, evolution, and contribution to the dwarf-galaxy budget

12:00 - 12:30: Gianfranco Gentile: Tidal dwarf galaxies as a test of fundamental physics

NEW SESSION: TDGs and star formation

How does dwarf formation proceed in the peculiar intergalactic medium into which tidal tails expand? How does this star formation compare to star formation in external disk regions and to the "normal" star formation in normal disk galaxies? Is there a greater role of feedback in the weak gravitational field case of TDG formation? Is there evidence for a different IMF in TDGs?

12:30 - 13:00: Ute Lisenfeld: Molecular gas and star formation in tidal dwarf galaxies

..... **Wednesday LUNCH (13:15 - 14:45)**

CHAIR: CHRISTIAN THEIS:

14:45 - 15:15: Jonathan Braine: Star formation in low-density environments

15:15 - 15:45: Tobias Westmeier: Broadband Radio Observations of Local Groups with ASKAP (BROLGA)

15:45 - 16:15: Mederic Boquien: Collisional debris as laboratories to study star formation

16:15 - 16:45: Carsten Weidner: The integrated galactic initial mass function in dwarf galaxies

..... **afternoon TEA (16:45 - 17:30)**

FREE Wednesday Cruise along the Rhine for general discussions with conference dinner (18:00 - 22:00)

NOTE: No dinner in the Physics Centre

May 28th, Thursday

CHAIR: JONATHAN BRAINE:

9:00 - 9:30: Peter Weilbacher: Star Formation in the Tidal Tail of the Merging Galaxy UGC 2238

9:30 - 10:00: Gerhard Hensler: Chemo-dynamical evolution of dE galaxies without dark matter

10:00 - 10:30: Simone Recchi: The early evolution of tidal dwarf galaxies

.....**morning COFFEE (10:30 - 11:00)**

NEW SESSION: The nature of dSph galaxies and tidal streams

How many tidal streams are there in the Milky Way? How inhomogeneous are the outer parts of galaxies?

CHAIR: SONIA DUFFAU:

11:00 - 11:30: Helmut Jerjen: The Stromlo Missing Satellite Survey

11:30 - 12:00: Nicolas Martin: Musings on faint Local Group satellite galaxies

12:00 - 12:15: (S) Julio A. Carballo-Bello: Nearby cosmology: globular clusters as relics of the Milky Way formation

..... **Thursday LUNCH (12:30 - 14:15)**

CHAIR: MICHAEL FELLHAUER:

14:15 - 14:45: David Martinez Delgado: Tracing tidal streams in spiral galaxies of the local universe

14:45 - 15:15: Juergen Fliri: SDSS analysis of Galactic stellar streams

15:15 - 15:45: Masao Mori: The once and future Andromeda stream

.....**afternoon TEA (15:45 - 16:15)**

CHAIR: ELENA D'ONGHIA:

16:15 - 16:45: Ricardo R. Munoz: The GGSS/Hydra Survey: A new stream in the first Galactic quadrant

16:45 - 17:15: Shoko Jin: Complex L - an HI structure shed by the Sagittarius dwarf galaxy?

17:15 - 17:45: Stefano Pasetto: Tidal effects on the spatial structure of the Local Group

17:15 - 18:15: Lucio Mayer: Dwarf galaxy evolution triggered by environmental processes

..... **Thursday DINNER in the Centre (18:45)**

May 29th, Friday

CHAIR: GERHARDT HENSLER:

9:00 - 9:30: Rodrigo Ibata: Satellites and streams in nearby galaxies

9:30 - 10:00: Sonia Duffau: The Virgo Stellar Stream

10:00 - 10:30: Paola Re Fiorentin: A new kinematic survey (from SDSS-DR7 and GSC-II) to search for fossil records in the Milky Way

.....morning COFFEE (10:30 - 11:15)

CHAIR: SHOKO JIN:

11:15 - 11:45: Alan W. McConnachie: The Local Group satellites and their distribution

11:45 - 12:15: Elena D'Onghia: The origin of dwarf spheroidal galaxies

12:15 - 12:45: Yang-Shyang Li: Modelling the Milky Way satellites in a cosmological context

12:45 - 13:05: Pavel Kroupa: Are the dSph satellites ancient TDGs?

..... Friday LUNCH (13:15 - 14:45)

NEW SESSION: TDGs and other stellar systems

How will TDGs evolve? Is there a link between star clusters, globular clusters and ultra-compact dwarf galaxies? Can TDGs be distinguished from traditional dwarfs?

CHAIR: HELMUT JERJEN:

14:45 - 15:15: Michael Hilker: The frequency of early-type dwarf galaxies in nearby clusters

15:15 - 15:45: Duncan Forbes: Globular clusters, ultra compact dwarfs and elliptical galaxies: an astronomical zoo

15:45 - 16:15: Steffen Mieske: The high M/L ratios of UCDs and their link to TDGs

.....afternoon TEA (16:15 - 16:45)

CHAIR: CARSTEN WEIDNER:

16:45 - 17:15: Christopher Conselice: An HST survey of faint dwarfs in the Perseus cluster: dark matter and stellar populations

17:15 - 17:30: (S) Jan Pflamm-Altenburg: On the star-formation efficiencies of dwarf galaxies

17:30 - 18:45: Discussion:

How consistent are the new high star-formation efficiencies with existing theories of dwarf galaxy evolution?

20 min: Holger Baumgardt: Latest Constraints on MOND from distant MW globular clusters

Are TDGs a significant contribution to the dwarf galaxy population?

If so, how does this affect cosmological theory via the sub-structure problem?

How can the flat rotation curves in TDGs be explained?

Are the dSph satellites ancient TDGs? If yes, how would this impact the dark matter hypothesis?

Is there any evidence for non-standard star-formation in TDGs?

..... Friday (final) DINNER in the Centre (19:00)