

Generation-GW: Diving into Gravitational Waves
University of the Virgin Islands, St. Thomas, US Virgin Islands
June 5-9, 2017

AGENDA

Monday, June 5th

6:00pm Cocktail Reception at "Paradise Point"

Tuesday, June 6th

Session 1: "GW Counterpart Search from Space" - Chair: Mike Cherry

9-9:30 Welcome
9:30-10:15 **Jamie Kennea (Invited)**
 "Teaching the old dog new tricks: Finding GW EM counterparts with Swift"
10:15-10:45 **Phil Evans**
 "Finding X-rays from a GW event"
10:45-11:00 Coffee break
11:00-11:30 **Barbara Patricelli**
 "Prospects for joint GW, high-energy and very high-energy EM observations of binary neutron star mergers"
11:30-12:00 **Eric Burns**
 "Sub-threshold Searches with Fermi GBM for Gamma-ray Counterparts to Gravitational Wave Triggers"
12:00-12:30 **Judith Racusin**
 "Fermi-LAT Observations of Gravitational Wave Sources"
12:30-2:30 Lunch Break

Chair : Jake Slutsky

2:30-3:00 **Takanori Sakamoto**
 "Search for the hard X-ray counterpart of gravitational wave events by CALET Gamma-ray Burst Monitor"
3:00-3:30 **Nicholas Cannady**
 "CALET Observations of High Energy Gamma-Ray Counterparts to GRBs and Gravitational Wave Events"
3:30-4:00 Coffee break

Session 2: "LIGO" - Chair Jan Staff

4:00-4:45 **Anamaria Effler (Invited)**
 "LIGO detectors: Status and prospects"
4:45-5:30 **Sylvia Zhu/Avneet Singh**
 "Continuous gravitational wave signals"

Wednesday, June 7th

Session 3: "GW Detectors in Space"

- 9:00-9:45 **Catia Grimani (Invited)**
"Environmental studies for and with the future interferometers for gravitational wave detection in space"
- 9:45-10:15 **Jacob Slutsky**
"The LISA Pathfinder Mission"
- 10:15-10:45 **Ann Hornschemeier**
"Gravitational Waves from Space, a NASA Perspective"
- 10:45-11:15 Coffee break
- 11:15-12:00 **Alberto Sesana (Invited)**
"The future of gravitational wave detection: the low frequency band"
- 12:00-12:30 **Sean McWilliams**
"Space-based gravitational-wave detector design and its impact on black-hole binary science"
- 12:30-2:30 Lunch Break

Session 4: "GW Sources 1" - Chair: Judy Racusin

- 2:30-3:00 Shengua Yu
"The gravitational wave background of Galactic neutron star neutron star and neutron star white dwarf binaries"
- 3:00-3:30 **Marta Volonteri**
"Formation of massive black hole binaries"
- 3:30-4:00 Coffee Break
- 4:00-4:30 **Laura Blecha**
"Modeling the Population of Merging and Recoiling Supermassive Black Holes"
- 4:30-5:00 **Tomasz Bulik**
"On the origin of merging binary black holes"
- 7:00-10:00 **Conference Dinner at Iggy's**

Thursday, June 8th

Session 5: "EM Counterparts 1" - Chair: Brad Cenko

- 9:30-10:15 **Miriam Cabero Muller (Invited)**
"Compact binary coalescences with Advanced LIGO"
- 10:15-10:45 **Philip Cowperthwaite**
"Deep and Rapid Optical Follow-Up of Gravitational Wave Triggers with DECAM"
- 10:45-11:15 **Coffee Break**

- 11:15-11:45 **Iair Arcavi**
"Targeted EM Followup of GWs with Las Cumbres Observatory"
- 11:45-12:15 **Griffin Hosseinzadeh**
"Las Cumbres Observatory: A Global Network of Robotic Telescopes for Time-Domain Follow-Up"
- 12:15-2:15 **Lunch Break**
- Chair: David Morris**
- 2:15-2:45 **Jeff Cooke**
"The Deeper, Wider, Faster program: a novel multi-wavelength, real-time solution to detect counterparts to gravitational waves"
- 2:45-3:15 **Andrea Melandri**
"GRAWITA results of optical follow-up observations of GW triggers"
- 3:15-3:45 **Coffee break**
- 3:45-4:15 **Jan Staff**
"Spindown of Isolated Neutron Stars: Gravitational Waves or Magnetic Braking?"
- 4:15-5:15 **Panel Discussion**

Friday, June 9th

Session 6: "GW Sources 2" - Chair: Marta Volonteri

- 9:00-9:30 **Jillian Bellovary**
"LIGO Sources in AGN Disks"
- 9:30-10:00 **David Kaplan**
"The search for radio emission from gravitational wave events"
- 10:00-10:30 **Johan Samsing**
"Formation of High Eccentricity GW Mergers"
- 10:30-11:00 **Coffee break**

Session 7: "EM Counterparts 2" - Nino Cucchiara

- 11:00-11:45 **Brad Cenko (Invited)**
"Observational constraints on kilonova emission following short GRBs"
- 11:45-12:15 **Laura Gosset**
"Hunting for gravitational wave sources with SVOM space mission"
- 12:15-2:00 **Lunch Break**
- 2:00-2:30 **Paul O'Brien**
"The Gravitational-wave Optical Transient Observer (GOTO)"
- 2:30-3:00 **Marko Krco**
"FAST Telescope: Current Status, Capabilities, Planned Projects, and LIGO collaboration"
- 3:00-3:30 **Marin Anderson**
"A Simultaneous Search for GW-EM Counterparts at Low Frequencies with the All-Sky OVRO-LWA"
- 3:30-4:30 **Panel Discussion**

