

Program

Schedule	Jan 14, Mon	Jan 15, Tue	Jan 16, Wed	Jan 17, Thurs	Jan 18, Fri
9:15 - 9:30		Inauguration			Check out
9:30-10:15		Bernard Schutz	Abhay Ashtekar	Adv LIGO (Rana Adhikari)	LIGO labs (Fred Raab)
10:15-11:00		Dave Reitze	Luciano Rezzolla	Virgo (Jo van der Brand)	LI-TRD (Anil Prabhakar)
11:00-11:30		Tea Break			
11:30-12:00		LI-SC (LISC PIs)	Parampreet Singh	KAGRA (Yuta Michimura)	LI Panel discussion
12:00-12:30			Ik Siong Heng	LI-Project (LI-Proj.Coords)	
12:30-1:00			Andrew Matas		
1:00-2:30	Check-in opens at 1:00 pm	Lunch			
2:30-3:15		Peter Shawhan	Giles Hammond	2:30-4:00 LI-Project (LI-Proj.Coords)	
3:15-3:45		LI-EM-FO (Varun Bhalerao)	Jan Harms		
3:45-4:15			Vivishek Sudhir		
4:15-4:45	High Tea		4:00-4:30		
4:45-5:15		Nikolaos Stergioulas	Sanjeev Dhurandhar	4:30-6:30 LI-Open session/ LI PMB (in parallel)	
5:15-5:45		Sparklers	Stuart Reid		
5:45-6:30		Poster session	Poster session		
6:30-7:30				Pre-banquet address Rai Weiss (remote)	
7:30-9:30	Reception	Dinner	Dinner	Banquet	

LI-SC - LIGO India Science
 LI-TRD - LIGO India Training and R&D
 GWD - Gravitational Wave Detectors

LI-EM-FO - LIGO India Electromagnetic Follow-up
 LI-PMB - LIGO India Project Management Board

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Program Details

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Day 1 : Jan 15

Chair: Ajit Kembhavi

09:30-10:15 Bernard Schutz: *TBA*

10:15-11:00 David Reitze: Gravitational-wave Observatories in the Multi-messenger Astronomy Era: LIGO's plans into the 2020s and Beyond

Tea Break

Chair: Bala Iyer

11:30-13:00 LI-SC Pls:

Overview - Bala Iyer (10 min)

Burst searches, IMBH - Archana Pai (20 min)

Waveform modelling & Tests of GR - K G Arun (20 min)

Neutron Star EOS - Sukanta Bose (20 min)

Stochastic Background - Sanjit Mitra (20 min)

Lunch

Chair: Somak Raychaudhury

14:30-15:15 Peter Shawhan: *Multi-Messenger Science Opportunities in the LIGO-India Era*

15:15-16:15 LI-EM-FO session:

Daksha: Indian eyes on gravitational wave skies - Varun Bhalerao

EM counterparts of BNS & NS-BH mergers: constraining energetics, geometry and environments - Poonam Chandra

Follow-up of the EM counterparts of GW events in the Optical using IIA's ground based facilities (present and future) - G C Anupama

GW-EM synergy in the era of LIGO-India - Resmi Lekshmi

High tea

Chair: P Sreekumar / Shivaraj (Sparklers)

16:45-17:15 Nick Stergioulas: *Spectral classification of gravitational-wave emission and equation of state constraints in binary neutron star mergers*

17:15-17:45 Sparklers

17:45-18:30 Poster session

19:30 onwards *Dinner (at Poolside)*

Day 2 : Jan 16

Chair: Naresh Dadhich

09:30-10:15 **Abhay Ashtekar:** *Scenes from MMA and Gravitational Waves*

10:15-11:00 **Luciano Rezzolla:** *Binary neutron stars: Einstein's richest laboratory*

Tea Break

Chair: Anand Sengupta

11:30-12:00 **Parampreet Singh:** *Hunting for potential quantum gravity signatures in gravitational waves*

12:00-12:30 **Ik Siong Heng:** *Gamma-ray burst astrophysics from joint observations with gravitational waves*

12:30-13:00 **Andrew Matas:** *Searches for the Stochastic Gravitational Wave Background*

Lunch

Chair: Umakant Rapol

14:30-15:15 **Giles Hammond:** *Fused silica suspensions and enhancements for LIGO India*

15:15-15:45 **Jan Harms:** *The natural habitats of ground-based, gravitational-wave detectors*

15:45-16:15 **Vivishek Sudhir:** *TBA*

High Tea

Chair: Martin Hendry

16:45-17:15 **Sanjeev Dhurandhar:** *Gravitational wave signature of a mini creation event*

17:15-17:45 **Stuart Reid (Giles Hammond):** *UK coatings research relevant to the era of LIGO India, A+ and beyond*

17:45-18:30 Poster session

19:30 onwards *Dinner (at Poolside)*

Day 3 : Jan 17

Chair: Subroto Mukherjee

09:30-10:15 **Rana Adhikari:** *TBA*

10:15-11:00 **Jo Van der Brand:** *TBA*

Tea break

Chair: Prasad Naik

11:30-12:00 **Yuta Michimura:** *Status of KAGRA: Recent progress towards O3 and future plans*

12:00-13:00 LI Project:

Overview of LIGO-India Project (Sendhil S Raja): 20 min

Origins, Site search and selection (Tarun Souradeep): 20 min
Site Characterisation, preparation & Civil Infrastructure (Milind Govardhan): 20 min

Lunch

Chair: A S Joshi

14:30-16:00 LI Project:

Vacuum system for LIGO-India (Subroto Mukherjee): 30 min

Detector related activities (Sendhil S Raja): 20 min

Control and DAQ system (Amit Srivastava): 20 min

Data Archival & Computational Facility (Sanjit Mitra): 20 min

High Tea

Chair: Suresh Doravari

16:30-18:30 Parallel sessions - LI Open (at Lotus hall) / LI PMB (at Windsor Hall)

18:30-19:30 Rai Weiss: Pre-banquet address (remote)

Poster Prize Announcement

19:30 onwards Banquet (at Lotus lawns)

Day 4 : Jan 18

Chair: Ravi Subrahmanyam

09:30-10:15 Fred Raab: Operating the LIGO Observatories

10:15-11:00 LI_TRD session - Anil Prabhakar:

Training activities for LIGO-India - Umakant Rapol (IISER, Pune) and Suresh Doravari (IUCAA)

Wind resistant design studies for LIGO India structure - Sabareesh (BITS-Pilani, Hyd)

Tea Break

Chair: Tarun Souradeep & Fred Raab

11:30-13:00 LI Panel Discussion

Lunch

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