## Program

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

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 PIs:
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)

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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)

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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, preperation & 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)

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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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