Proposal to host DAE-BRNS HEP Symposium 2022
@ IISER Mohali

December 13-17, 2022

A. Shivaji, V. Bhardwaj
On behalf of IISER Mohali
Indian Institute of Science Education and Research, Mohali (IISERM) was established in 2007 by the Ministry of Human Resource Development to promote basic sciences in India.

Basic mandate of the IISERM is to carry out research in frontier areas of science as well as to provide quality science education.

Within a decade IISER Mohali has joined the club of premier research institutes of India.
Department of Physical Sciences (DPS)

Actively engaged in frontier research in the following areas:
* Astrophysics, Cosmology and Gravitation, Attosecond physics, Biophysics, Medical Physics, Complex systems, Computational Physics Condensed Matter, High Energy Physics, Laser Physics, Nonlinear dynamics, and Quantum Optic, Information and Computing*

HEP group in the department is relatively young comprising 7 faculty members.
- Group consists of two experimental and five theoretical HEP members along with several PhD students and postdocs.
- Our research is focused in areas like *string theory, quantum gravity, collider physics, beyond the standard model physics, higher-order quantum corrections, lattice field theory, flavour and heavy ion physics.*
- Active experimental collaboration in Belle, Belle II and MINERνA experiments.
Chandigarh (UT), Mohali (Punjab) and Panchkula (Haryana) are different cities but merged within each other. They share same DNA, culture, and architecture. Chandigarh Airport is in Mohali. Except for governance, everything is same in these cities.

**Travel**

Very well connected to New Delhi (~250 km one way).

**Air:**
Many flights between Chandigarh and major cities.
**Cheapest option take flight till N. Delhi and take Volvo bus from there.**
Flight b/w N. Delhi and Chandigarh: hardly 45 minutes. ~₹ 3000

**Road:**
Well connected from N. Delhi (buses every 30 minutes or less) take 5 hours drive.
**Volvo/AC buses ~₹ 700, Regular ~₹ 200**
Inter state taxis (Ola, Uber and prepaid taxis) are easy to book ~₹ 3500

**Rail:**
Connected to New Delhi via 3 Shatabdis ~₹ 600 (CC)
Local train (~₹ 150, one should avoid).
IISER Mohali campus accessibility

We are within the main city, connected to all places.

✓ **9 km** Chandigarh Airport to IISER Mohali ~₹ 250 by Taxi and ~₹ 20 by City Bus
✓ **11km** (Inter-State bus terminus Chandigarh Sec17 and Sec 43) ~ ₹ 150 by Auto/Taxi
✓ **13km** Chandigarh Railway Station ~₹ 150 by Auto/Taxi

*Within Mohali: one can get Ola, Uber and Auto easily.*

**IISER Mohali is near Phase 10/11:** all small/major eating and shopping places are there.

❖ BesTech Mall is 1 Km from the IISER Mohali. One can go and watch movies in the evening, eat at food court or do shopping.
❖ We also have shopping complex (you can get everything) inside the campus.
Conference venue

Lecture Hall Complex

Auditorium (LH7)
- 500 seats
- Plenary Session

LH1 | LH3 | LH4
- Each 110+ seats

LH5 | LH6
- Each 250+ seats

Seminar Room

AB2-5A | AB2-5B
- Each 45+ seats

AB1-5A | AB1-5B
- Discussions

Academic Block
- Many classrooms
- All 40+

Meeting room

Two projectors, PC and wireless mics
to be made available for the participants (NKN line backbone)

Plenary Session

Auditorium (LH7)

DAE-BRNS
HEP 2022

Projectors and wireless mics

Academic Block

Many classrooms

Meeting room

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Only used for academic purpose

Plenary Session

DAE-BRNS
HEP 2022
Accommodation

- Newly constructed guest house
- 108 rooms including few executive suites. About 40 rooms (double occupancy) can be made available for plenary/summary talk speakers.
- Hostel rooms can be made available for the students/post-doc (~100) due to winter vacation.
- Rest of students and postdoc can be arranged/negotiated with INST (1 km), NIPER (5 km) and Panjab University (17 km).

There are also many branded and budget hotels in Mohali and Chandigarh (in a price range of ₹1000-5000 per night) where participants can stay during the symposium.
- Due to easy and cheap connectivity in Chandigarh/Mohali, inter/intra city travel is not an issue.
- Nevertheless, we do plan to provide to-and-fro transport from selected hotels.

- ShivalikView (3000-5000), Red Fox (2800-3500), LemonTree (4000-5000), HighwayInn (4000), Kenview (2300-2500), JW Marriott (7500-), Oyo(1100 onwards) and so on.

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Food and life during symposium

- Each hostel mess caters at nominal price.
- Three cafeterias, one in LHC and two in shopping complex.
- Swiggy, Zomato make deliveries inside the campus.

During symposium

✓ Provide lunch along with two high teas on the working days.
✓ One conference banquet dinner for social interaction
  ➢ Plan to have one cultural event.
✓ May also provide breakfast to the people staying at IISER Mohali guesthouse and hostels (if sufficient funds raised).

Banking/ATM

There is a Canara Bank branch with ATM facility inside the IISER Mohali campus.

Medical and Day Care Facility

The institute has a small Health Centre with medical staff and an ambulance facility on the campus. The Centre is open from Monday-Saturday. Many private hospitals like Max, Fortis and Government hospitals like PGI Chandigarh, GMCH, and Hospital-16 are within 10-20 km radius of the institute.

On campus day care facility is also available on a payment basis. The charges are @ INR 600/day.
Funds required

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Head</th>
<th>Estimated budget(₹)</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Conference Kit+ Certificate</td>
<td>2,50,000</td>
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<tr>
<td>2</td>
<td>Conference dinner</td>
<td>4,00,000</td>
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<tr>
<td>3</td>
<td>Lunch</td>
<td>7,00,000</td>
</tr>
<tr>
<td>4</td>
<td>Breakfast/High Tea in morning</td>
<td>1,40,000</td>
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<tr>
<td>5</td>
<td>Tea/Coffee</td>
<td>1,20,000</td>
</tr>
<tr>
<td>6</td>
<td>Local Transportation</td>
<td>1,25,000</td>
</tr>
<tr>
<td>7</td>
<td>Accommodation for plenary</td>
<td>2,25,000</td>
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<tr>
<td>8</td>
<td>Accommodation for student</td>
<td>1,50,000</td>
</tr>
<tr>
<td>9</td>
<td>Photography</td>
<td>50,000</td>
</tr>
<tr>
<td>10</td>
<td>Honorarium (Accounts)</td>
<td>20,000</td>
</tr>
<tr>
<td>11</td>
<td>Cultural program</td>
<td>1,00,000</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>22,80,000</td>
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<tr>
<td>Total (including 7% inflation/annum)</td>
<td></td>
<td>26,10,372</td>
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</tbody>
</table>

We expect to generate around ₹ 17 lakh from registration 
(registration fee similar to what was charged at the DAE symposium at IIT Madras)

₹ 7 lakhs will be raised from different DST/DAE funding Agencies.

IISER Mohali has kindly agreed to provide ₹ 2 lakh as a financial support.

Expenses ~450 participants

25% registration wave off also taken into account
Places to see

Sukhna Lake

Rock Garden

Rose Garden

Open hand monument

Gurudwara Nabha Sahib

Amb Sahib

Fateh Burj

Pinjore Garden

Mata Mansa Devi

Govt. Museum & Art Gallery
Places to visit

Morni Hills: 1.5 hours
Kasauli: 2 hours
Golden Temple: 4.5 hours
Wagha Border: 4.5 hours
Shimla: 4 hours
Dharmsala: 6 hours
Kullu/Manali: 8 hours

December is best time to visit Himachal if you love snow

Nearby cities one should visit
❖ Please let us now your concerns *(in case we missed any)*.
➢ We would like to look into it.
❖ We appreciate your consideration and support to allow us to host the next DAE-BRNS symposium at IISER Mohali.
Today's weather of Chandigarh

Accuweather

Temperature: 6 °C
Humidity: 96%
Wind: 8 km/h

Precipitation: 2%


<table>
<thead>
<tr>
<th>Month</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Record high °C (°F)</strong></td>
<td>27.7 (81.9)</td>
<td>32.8 (91.0)</td>
<td>37.8 (100.0)</td>
<td>42.6 (108.7)</td>
<td>44.6 (112.3)</td>
<td>45.3 (113.5)</td>
<td>42.0 (107.6)</td>
<td>39.0 (102.2)</td>
<td>37.5 (99.5)</td>
<td>37.0 (98.6)</td>
<td>34.0 (93.2)</td>
<td>28.5 (83.3)</td>
<td>25.6 (78.1)</td>
</tr>
<tr>
<td><strong>Average high °C (°F)</strong></td>
<td>20.5 (68.9)</td>
<td>23.0 (73.4)</td>
<td>28.4 (83.1)</td>
<td>34.6 (94.3)</td>
<td>38.3 (100.9)</td>
<td>38.3 (100.9)</td>
<td>34.1 (93.4)</td>
<td>32.8 (91.0)</td>
<td>33.3 (91.9)</td>
<td>32.3 (90.1)</td>
<td>27.4 (81.3)</td>
<td>21.9 (71.4)</td>
<td>30.4 (86.7)</td>
</tr>
<tr>
<td><strong>Average low °C (°F)</strong></td>
<td>5.5 (41.9)</td>
<td>8.1 (46.6)</td>
<td>13.0 (55.4)</td>
<td>18.8 (65.8)</td>
<td>23.0 (73.4)</td>
<td>24.9 (76.8)</td>
<td>23.7 (74.7)</td>
<td>23.2 (73.8)</td>
<td>21.7 (71.1)</td>
<td>17.2 (63.0)</td>
<td>10.6 (51.1)</td>
<td>6.4 (43.5)</td>
<td>16.3 (61.3)</td>
</tr>
<tr>
<td><strong>Record low °C (°F)</strong></td>
<td>0.0 (32.0)</td>
<td>0.0 (32.0)</td>
<td>4.2 (39.6)</td>
<td>7.8 (46.0)</td>
<td>13.4 (56.1)</td>
<td>14.8 (58.6)</td>
<td>14.2 (57.6)</td>
<td>17.2 (63.0)</td>
<td>14.3 (57.7)</td>
<td>9.4 (48.9)</td>
<td>3.7 (38.7)</td>
<td>0.0 (32.0)</td>
<td>0.0 (32.0)</td>
</tr>
<tr>
<td><strong>Average rainfall mm (inches)</strong></td>
<td>43.3 (1.70)</td>
<td>44.2 (1.74)</td>
<td>30.5 (1.20)</td>
<td>11.7 (0.46)</td>
<td>26.9 (1.06)</td>
<td>131.8 (5.19)</td>
<td>278.1 (10.95)</td>
<td>289.0 (11.38)</td>
<td>158.2 (6.23)</td>
<td>22.8 (0.90)</td>
<td>6.4 (0.25)</td>
<td>19.2 (0.76)</td>
<td>1,064.1 (41.89)</td>
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<tr>
<td><strong>Average rainy days</strong></td>
<td>2.8</td>
<td>2.7</td>
<td>2.0</td>
<td>0.8</td>
<td>1.6</td>
<td>5.5</td>
<td>10.8</td>
<td>10.9</td>
<td>4.8</td>
<td>1.4</td>
<td>0.8</td>
<td>1.4</td>
<td>45.5</td>
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<tr>
<td><strong>Average relative humidity (%) (at 17:30 IST)</strong></td>
<td>47</td>
<td>42</td>
<td>34</td>
<td>23</td>
<td>23</td>
<td>39</td>
<td>62</td>
<td>70</td>
<td>59</td>
<td>40</td>
<td>40</td>
<td>46</td>
<td>44</td>
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