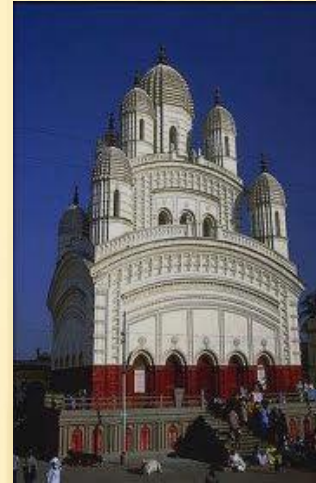


A Proposal from



Kallolinee KOLKATA, INDIA

for hosting

RD51 COLLABORATION MEETING
IN SEPTEMBER - OCTOBER, 2012

Saha Institute of Nuclear Physics (SINP) & Variable Energy Cyclotron Centre (VECC)



20th. CBM Collaboration Meeting

July

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

August

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

September

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

October

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

November

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

December

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Biggest Festival of Eastern India

NUSTAR Meeting
3rd. Week of October



Meghnad Saha

Campus:

Saha Institute of Nuclear Physics (SINP)

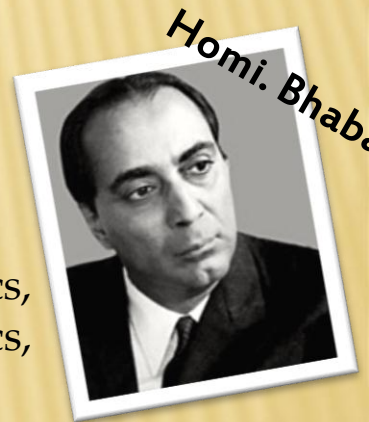
- Research activities in astro-particle physics and cosmology, biophysics, chemical science, crystallography, condensed matter, material science, molecular biology, nano-science, nuclear physics, plasma physics, surface physics, structural genomics, theoretical physics
- New accelerator facility for research in low energy nuclear astrophysics in doorway
- Intake of research students through nation-wide screening test for an associateship programme and its successful completion
- Training programmes for undergraduate students and summer/winter project students



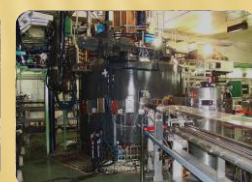
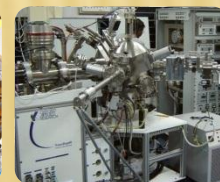
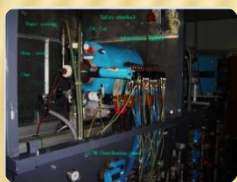
Electron Microscope & Cyclotron built in Kolkata

Variable Energy Cyclotron Centre (VECC)

- Accelerator laboratory with two cyclotrons
- R&D activities on accelerator physics and technology, astrophysics, computer and informatics, electronics, nuclear medicine, nuclear physics, material science, radio chemistry, RIB facility, theoretical physics
- Training of pre-doctoral students affiliated to Homi Bhabha National Institute



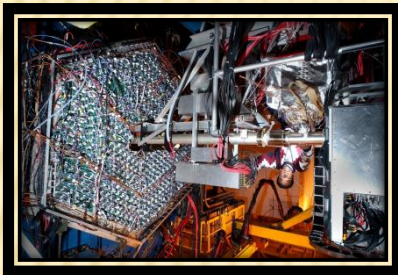
Homi Bhabha



Nuclear/Particle Physics in SINP & VECC

Long tradition of working in low energy and high energy nuclear physics experiments

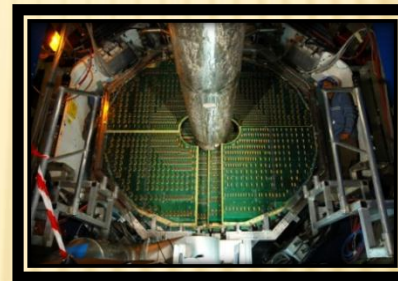
- Members of international collaborations like **ALICE, CBM, CMS, STAR**
- Experience of R&D and fabrication of large scale gaseous wire chambers
- Expertise in development of ASIC VLSI readout chip (**MANAS chip in ALICE**)



STAR PMD



ALICE PMD



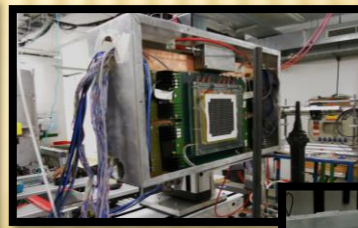
ALICE FMS



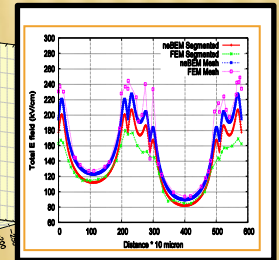
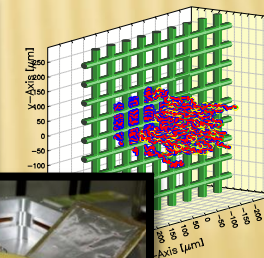
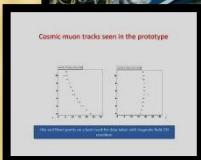
MANAS

- Experience in R&D of large scale RPCs and other nuclear detectors and their operation
- Strong base of detector simulation, data analysis, code development
- R&D activities on Micro-Pattern Gaseous Detectors and related applications

Bskelite RPC

SDD
for Picasso

MPGDS

Garfield+neBEM
results

Muon tracks



INGA

Fallout of RD51 Collaboration Meeting

Participating institutes / laboratories from India

Bhaba Atomic Research Centre (BARC), Mumbai

National Institute for Scientific and Engineering Research (NISER), Bhubaneswar

Saha Institute of Nuclear Physics (SINP), Kolkata

Tata Institute of Fundamental Research (TIFR), Mumbai

Variable Energy Cyclotron Centre (VECC), Kolkata

- Strengthen the coordination among the Indian members
- Awareness generation on the R&D of MPGDs and their potential applications
- Possibility of inducting more people from the member institutes/laboratories in the collaboration
- Possibility of inducting other Indian institutes/laboratories/universities
- Attracting young students to work on MPGDs
- Exploration of Indian industries for MPGD development and technology transfer

In addition to the usual collaboration meeting, we propose to hold special a lecture session for half a day. Participation from nearby Universities and Institutes is expected in this open session.

Meeting Organization:

- An auditorium of capacity about 700
- Three lecture halls of capacity around 100 available for parallel sessions
- Facility for video conferencing, EVO connection



- *Very positive response from the Institute Authorities*
- *Administrative, logistics and partial financial support from the Institutes will be available*
- *Additional financial support expected from BRNS, DST and similar Government agencies*
- *Some support in the form of local hospitality will be made available*



Meeting Organization:

- Guest houses with cheaper accommodation of capacity about 30-40 (*for students*)
- Good hotels like Hyatt Regency, Swissotel, Sojourn, Pearl, in close proximity (*within 5 km with price range US\$80-200*)
- Free transportation from hotels
- Regional cuisines in lunch
- Cultural evening
- City tour
- Banquet



Kallolinee **KOLKATA**

Connected directly to

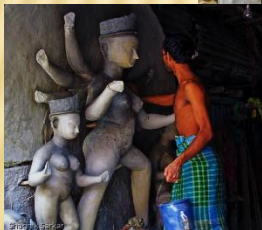
Frankfurt, Beijing (via other Chinese city), Singapore

All major international cities via Delhi and Mumbai

Visa is necessary but normally no difficulty is encountered in getting visa (early confirmation of participation will be useful)

Climate: 25-30 Centigrade during October

Ambience: Beginning of festive season



Tourism:

Around KOLKATA:

River cruise, City tour to Museums, Temples, Palaces, Monuments, Botanical Garden

Away from KOLKATA:

Himalayas within 2-3 hrs flight

Sea within 2-4 hrs drive

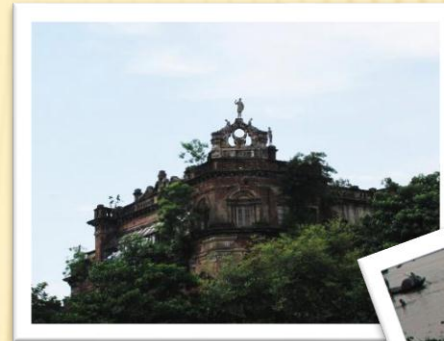
Heritage places within 4-5 hrs drive

Food

Plenty of fish, meat, sweets, fruits

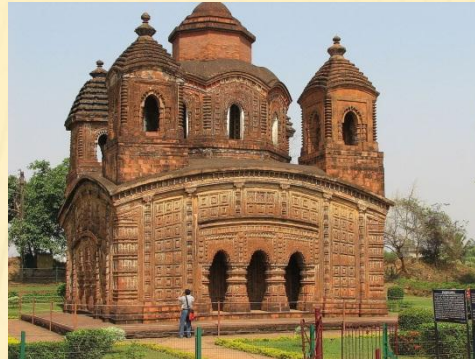
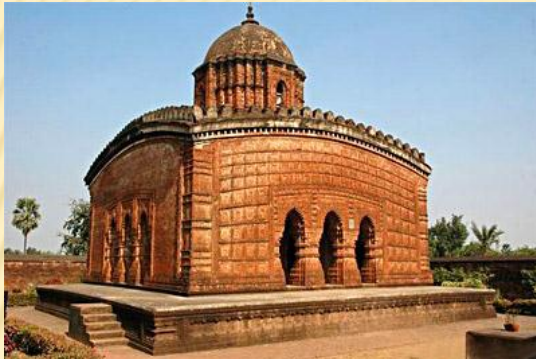
Shopping

Handicrafts, cotton dresses, jewellery, many other possibilities

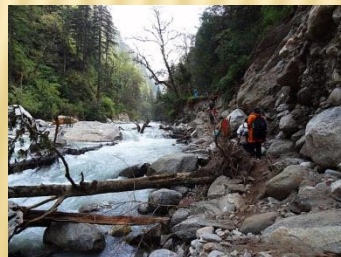


Heritage Places:

Bishnupur, Gour, Murshidabad, Santiniketan



Mountains:



Seas:



Desert:

