

## LIGO India meeting

Tuesday 8<sup>th</sup> May 2018, 9-10 UK (13:30-14:30 Pune, India)

### 1- Update on spend profile:

*Giles:* Thorlabs order though ~20k- to build laser stabilization platform to start in the UK and then will go to India. Order needs to go to Sheffield.

*Ed Daw* - Quotes for the laser-low price, UK – 5k GBP, specs better than wanted- details will be shared. 1064nm laser. Frequency stability cavity, plan was to make their own but probably should get a quote for it as well.

*Giles to Ed:* IF we buy laser, funds? Need 3 quotes.

GCRF – spend going to plan

For travelling UK-India ,there is money available. Funds need to spent.

### **Action: Ed/Giles. Work through procedure to procure laser through Sheffield**

Outreach side: money needs to be spent for the apps and the books.

Books: Couple of orders ~2k of books a second order will be made of over 2k books.

Total ~4400 books.

### 2- Agenda UK meeting: set date week of the 16<sup>th</sup> of July.

*Somak:* request for a visa letter – **TO BE SORTED this week (Action: Giles).**

*Giles:* Hopefully most items will be ready before meeting

*Ed:* lasers might not be ready on time.

*Somak:* suggesting meeting maybe once a year?

*Giles:* Summer school in India: will there be opportunities this summer or next year, value in sending UK people to summer school in India?

*Somak:* India summer school is very intensive, small number of students, very intensive. From now on there will be more focused workshop and more LIGO\_India meetings (e.g. LIGO India: The Way Ahead), and they will look for lecturers and also LIGO India is to have such meetings elsewhere in India not just have them come to us. We have done similar projects, at a smaller scale. Maybe take it to somewhere in Delhi or other institutions with potential groups to join LIGO , needs to have a look and plan this.

*Giles:* Supporting funds to the Newton-BHABHA is good, also adding groups is good idea.

*Ed Daw:* Take the laser around in a case and take it to India.

VR with Ozgrav: Giles-Sanjit

*Giles:* Headsets around but would be nice to have a permanent or semi permanent, high end set up which can be taken out to visits science days, maybe stationed at IUCCA. Spoken to OzGrav?

*Sanjit :* contacted students to see if they could download the app and many students had the headsets, any feedback- students never replied. IF we get the hardware then we could go ahead and make plans around that.

*Somak:* A lot of activities with the VR headsets. They don't see a problem o set up this. Have a dark room with a permanent installation, in one of our labs- many occasions for pple visiting and then have a portable version to take out to schools.

*Giles to Sanji-* get in contact with OzGrav and speak re the headsets. Downside of the new apps - Phone needs a gyro to move around but not all phones have this, so the apps might not work on all devices.

**Action: Sanjit/Somak. Contact OzGrav to determine what is needed for a high end permanent setup**

3-AOB: Next meeting in two weeks, Giles can't attend but someone else from Glasgow side will chair it.