



# SCIENCE AND TECHNOLOGY COUNCIL

# TAKNEEK '18

## ON THE SHOULDERS OF GIANTS



### Heavens Above

Team Event  
Points: 30

Any number of teams of at most 3 members can register for the event. However, all the members must be Y18 (UG and/or PG) from the same pool. Registration should be done in advance. For every round, the teams will be given a particular time slot and teams will have to be present during that time at the venue. Any delay of more than 5 minutes will lead to the disqualification, unless any of the astronomy club coordinators is informed at least 30 minutes before their respective slot.

#### Event structure:

The event will be held in 3 separate rounds:

A. The first round will test the participating teams' basic understanding of astronomy, the sky and other introductory concepts in related topics. The participants will be shown a simulated sky (northern and southern hemisphere) in the planetarium at Astronomy Club. They will have to identify celestial objects. (Simulation Software: Stellarium)

B. The second round will require a bit more of technical approach to observational astronomy, and may involve some basic numerical analysis of observed data. Participants will have to solve a set of astrophysical questions.

C. The third round will require more direct knowledge of objects in the sky, and may also comprise of a component of instrument usage (telescope). This will be a rapid fire round of 2 minutes duration.

At the end of the first round, 30% of the number of teams that participated for the first round, or 10 teams, whichever is lesser, will qualify for the 2nd round. At most 5 teams will qualify for the 3rd round. The final ranking will be decided on the basis of the score achieved by each of these 5 teams in all three rounds combined, with the weightages of rounds 1, 2 and 3 in the ratio of:

**Twice the Light Year : Parsec : Distance to the second nearest star** respectively. (All data is as taken from en.wikipedia.org).

Note: In case of tie between the teams after all the three rounds, we will have a questionnaire round. In case of any dispute, decision of Astronomy club shall be final and irrevocable.

Akash Jain  
General Secretary, Science and Technology  
Students' Gymkhana, IIT Kanpur  
204, NewSAC, IIT Kanpur, Kanpur (UP) - 208016  
sntsecy@iitk.ac.in | jaiakash@iitk.ac.in  
+91-9450533385