

## Upcoming events

**Star Party:** 17 March 2018

**Attractions:** Mars, Jupiter, Saturn, ISS, Iridium flare

**Also includes:** Telescopic viewing of galaxies, nebulae, clusters etc., information about Raashis, Nakshatras, Constellations & their mythological stories. Also astrogames, software demo, Q&A etc.

**Venue:** "Abhyankar Farm" (7.5 km to the NE of Nasrapur phata).

Map: <https://goo.gl/maps/Do1tqHPDUM72>

For registration, please contact: Aniruddha Deshpande (9822612737) or Aparna Kinkar: (8308831973)

**Messier Marathon:** 16 March 2018. Interested members, please contact JVP office.

## Last month @ JVP

### Star Parties

Jyotirvidya Parisansta had organized an overnight Star Party on February 17, 2018 near Kambre village, near Nasarapur on Pune-Satara Road. This overnight program started with the sunset on 17th February and closed by the sunrise on 18th. Main attractions of the program were Moon, Jupiter, Mars, Saturn and some bright satellite passes including International Space Station. The program also consisted of unaided eye stargazing; introduction to Rashis and Nakshatras, telescopic viewing of planets, star clusters, galaxies & nebulae, etc. It also included slide show, short films, astrogames etc. 130 people attended this program.

Four invited star gazing events were held in this month:

Date	Invitee	Place	Attendance
18 February 2018	Navonmesh School, Chakan on occasion of Bal Vidyan Melava	Navonmesh School, Chakan	400
21 February 2018	Anantrao Kulkarni School, Narayangaon	GMRT, Khodad	500
23 February 2018	Modern College of Engineering	Modern College of Engineering	187
28 February 2018	IUCAA on occasion of NSD	IUCAA	2000





**Lectures by JVP members at different places**

Few organisations invited JVP members to deliver lectures at their organisations. The details are as follows:

Date	Invitee	Lecturer	Topic	Attendance
9 February 2018	Muktangan School	Dr. Kavita Bandivadekar	Biology meets Astronomy	~120
Lecture series at Fergusson College on Observational Astronomy				
26 February 2018	Fergusson College	Dr. Sagar Gokhale	Introduction to Observational Astronomy	~50
27 February 2018	Fergusson College	Dr. Kavita Bandivadekar	Biology meets Astronomy	~50
27 February 2018	Fergusson College	Mr. Aniruddha Deshpande	Count the photons: Variable star astronomy	~50



## Exhibition on "Space Stations" at IUCAA on occasion of National Science Day



We

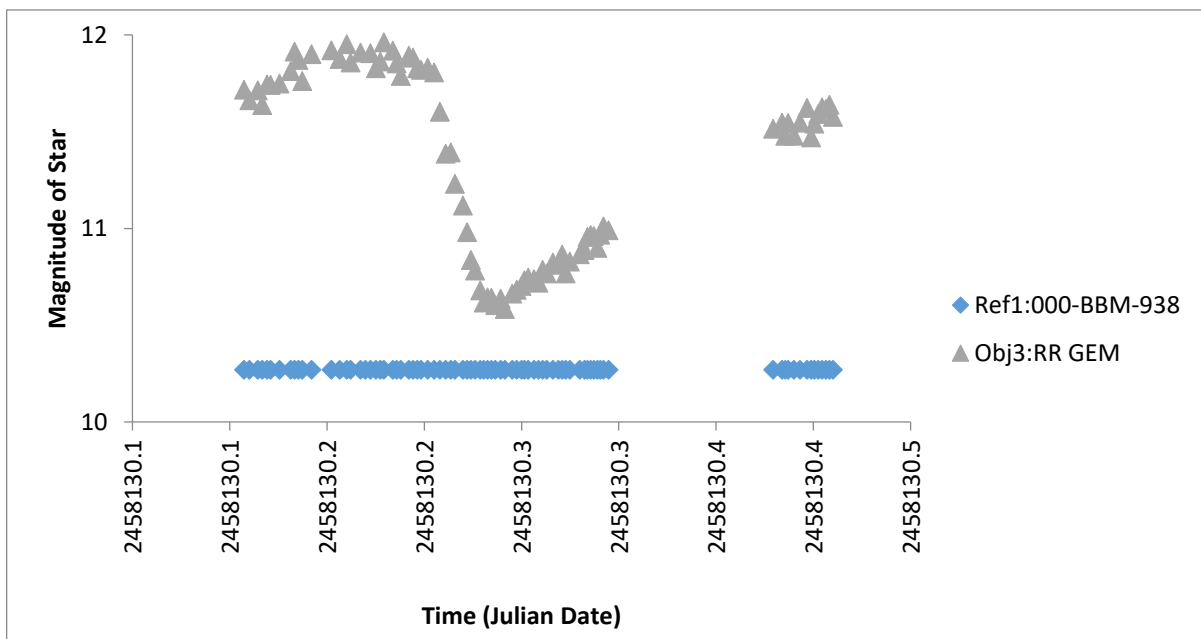


celebrate National Science Day on 28<sup>th</sup> February. On this occasion, Inter University Center for Astronomy and Astrophysics (IUCAA) organized an open program for common public and invited Jyotirvidya Parisansta members to guide the visitors. In December 2017, Parisansta hold an exhibition on "Space Stations: Off the Earth, For the Earth" and exhibited same at the IUCAA. Models of Salyut, Skylab, Mir, Tiangong and ISS were exhibited along with posters explaining same. Members also carried out star gazing session in the evening of 28<sup>th</sup> February. Around 10,000 citizens of Pune visited this program. Following members volunteered for the program: Ms. Saujanya Satpute, Riya More, Madhura Barshikar, Avantika Iyengar, Prajakta Khaty, Pruthviraj Gore, Siddharth Birmal, Nisarg Ingole, Siddharth Kamat, Omkar Gawali, Aniket Kelkar, Ramchandra Karanje, Sarang Vandana, Pooja Naniwadekar, Prayag Gore, Malhar Sonaniskar, Archana Dash, Vishwajit Anjali, Atharva Pathak.

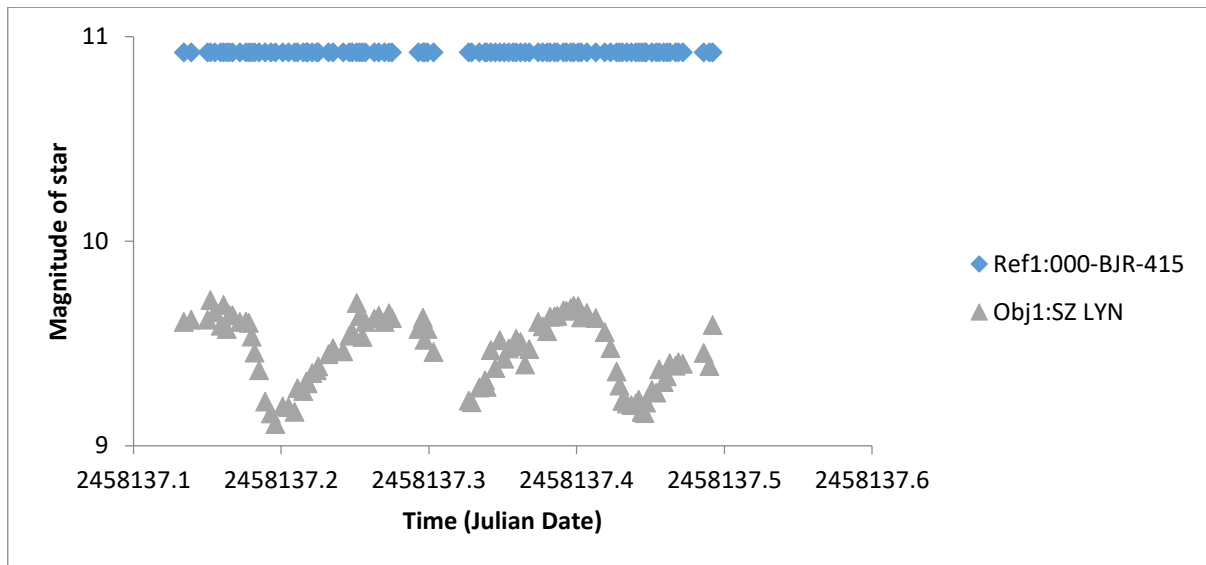
## *Kesariwada JVP Observatory (KJO) Report*

Last month, KJO was busy with M.Sc. and B.Sc. students' projects. Students are working under guidance of Mr. Aniruddha Deshpande on variable stars and Mr. Deepak Joshi on parallax project.

Three students from Ferguson College worked at KJO for their M.Sc. project on variable star: RR Gem. Total nine nightlong observation sessions were conducted by these students and observed the Blazhko effect by the source, with resulted in to asymmetric light curves (steep ascending branches). The source is fundamental mode pulsator. Observations confirmed that the source intensity (magnitude) changes in period and amplitude in tricolour G, and tricolour B passband. Total 1900 observations were recorded by these students. Lightcurve of the star was observed as follows:



Two students from Abasaheb Garware College are working on variable star, SZ LYN for their B.Sc. project. The source is  $\delta$  Scuti type variable star. This is pulsating variable and shows asymmetric light curve. The shapes of the light curves, periods, and amplitudes usually vary greatly. Radial as well as non-radial pulsations were observed. Observations were taken in tricolour G and tricolour B passband. Total 900 observations were recorded in 5 nightlong observational sessions. Lightcurve of the star was observed as follows:



Two more students from Fergusson College are working in observations of variable star: DZ LYN for their MSc project. Total six nightlong observations were taken and it was observed that source is W Ursae type eclipsing variable, consisting of ellipsoidal component almost in contact. The depth of primary and secondary are almost equal. Total 1500 observations were used, in tricolour r g b. Analysis of the observations is underway. From AAVSO database; observations of GV PEG from observers around the globe were compiled for another project of Ferguson College MSc II. This project is to check whether the source shows asymmetric light curve and shows Blazhko effect.

Mr. Aniruddha Deshpande continued to record observations of some suspected variables. The study is underway for more observations which can lead to some conclusion.

### Contact US

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