



R. J. COLLEGE of Arts, Science & Commerce (AUTONOMOUS)

(Hindi Vidya Prachar Samiti's RAMNIRANJAN JHUNJHUNWALA COLLEGE of Arts, Science & Commerce)

Opposite Ghatkopar Railway Station, Ghatkopar (West), Mumbai 400086, Maharashtra, INDIA.

Website: www.rjcollege.edu.in Email: rjcollege@rjcollege.edu.in Tel No: +91 22 25151763 Fax No: +91 22 25150957

College is recognized under Section 2(f) & 12(B) of the UGC Act, 1956

Affiliated to UNIVERSITY OF MUMBAI || NAAC Re-Accredited 'A' Grade (CGPA: 3.50)

26th JUNE, 2020

NOTICE

The department of physics is organising RJC Physics lecture series in association with IAPT Mumbai Sub RC under DBT star college activity. This activity intends to develop the capacity skills of students and for improving student capability by appraising them of the recent trends in technology. The lecture would be delivered by eminent physicist and would be interactive. the details of the session is available in the brochure. the session would be online on zoom platform.

Session: 30th, June, 2020, 4PM

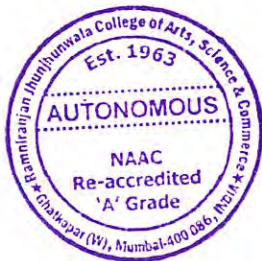
Resource Person: Dr Anwesh Mazumdar Homi Bhabha Centre for Science Education (TIFR)

Topic : Exoplanets

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RAMNIRANJAN JHUNJHUNWALA COLLEGE
OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS)
Ghatkopar (W), Mumbai-400 086, Maharashtra, INDIA



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List of Participants



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DBT STAR COLLEGE ACTIVITY



RJC Physics Lecture Series 6:

Exoplanets

Dr. Anwesh Mazumdar, Homi Bhabha Centre for Science Education (TIFR), Mumbai

He is Associate Professor in Homi Bhabha Centre for Science Education (TIFR). He is National Co-ordinator, Science Olympiads. He is actively involved in Physics and Astronomy education, NUS (Physics), Asteroeismology research, Astronomy and Physics Olympiads.



30th June, 2020 Tuesday

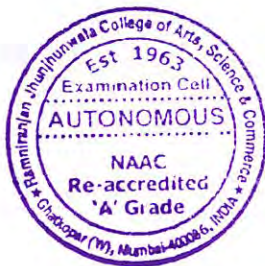


4.00 pm



Zoom Platform & Live on YouTube: <https://www.youtube.com/rjcollegecourseware>
OR https://youtu.be/DQuC09e_wo

Anwesh Mazumdar



[Signature]
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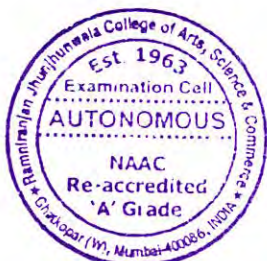
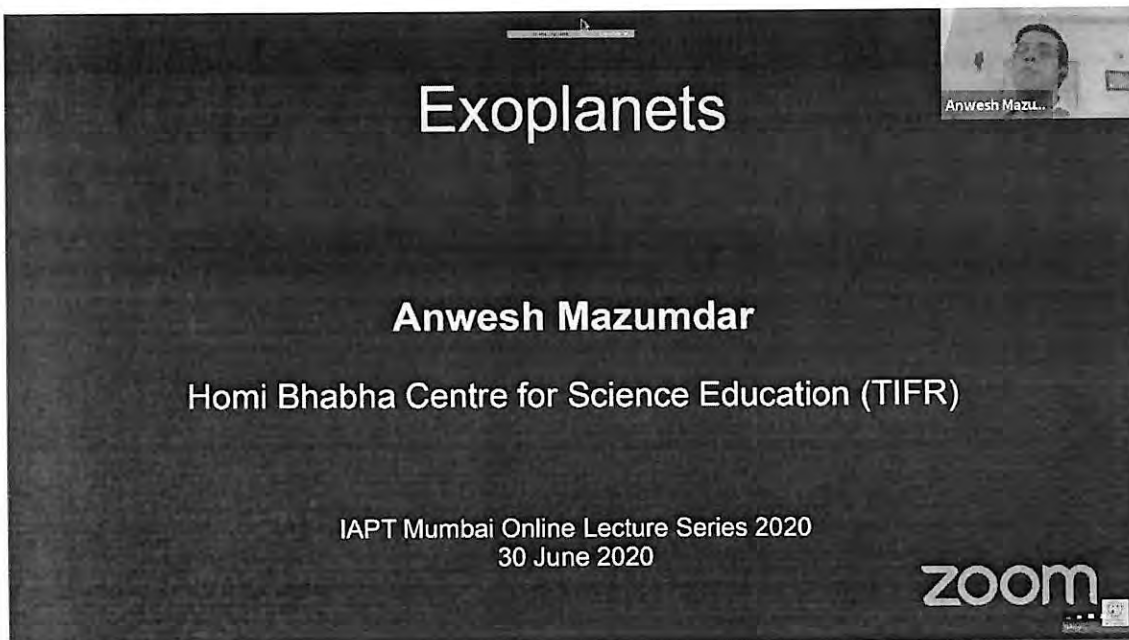
REPORT

Capacity Development and Skills Enhancement activity organised for improving students students capability (Awareness of Trends in Technology)

Dr. Anwesh Mazumdar (HBCSE, Mumbai) - 30 June,2020 - Exoplanets

You Tube link: https://www.youtube.com/watch?v=-DQuC09e_wo

One of the most fascinating questions that has perplexed humankind for a long time is whether we are alone in the Universe, or whether there are other instances of life, or even intelligent life, elsewhere in the Universe. While the answer is not definitively known yet, there are strong indications now that at least conditions favourable to life might exist in planets orbiting other stars in our galaxy itself. The discovery of extra solar planets, or "exoplanets" has been one of the most exciting developments in astronomy in the last twenty five years. Since the first discoveries in the mid-nineties, more than four thousand planets have been detected around other stars. In this talk I will describe the major scientific methods of detection and characterisation of exoplanets and our current understanding of the possibility of extra-terrestrial life.



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Radial velocity or "wobble" method



Anwesh Mazu...

- When a planet and a star orbit each other around their barycentre, the star is seen to move slightly, or "wobble", since the centre of mass of the star is not coincident with the barycentre of the star-planet system.
- The light received from the star undergoes a small Doppler shift related to the velocity of this wobble.
- The line of sight velocity of the star can be determined from the Doppler shift of a known spectral line.
- The amplitude and period of this velocity reveal characteristics of the planet.

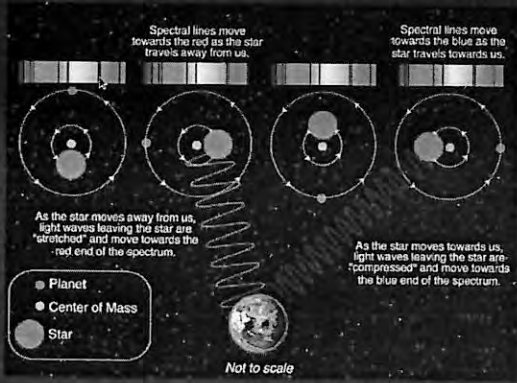




Image credit: Las Cumbres Observatory



zoom

Planet transit, or starspot or pulsations?



Anwesh Mazu...

- Starspots and stellar pulsations can complicate detection of exoplanets
- Spots will be visible for much longer time than the transit – different periodicity, at least for slow rotators.
- Oscillations can have lower or higher periods, depending on the star

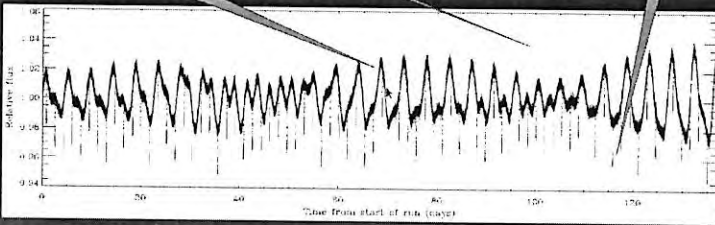


Image credit: CoRoT Mission

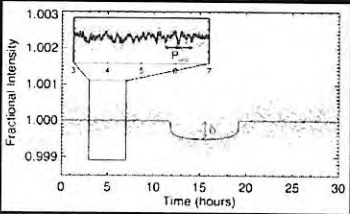



Image credit: Daniel Huber



zoom



RP Chaudhary

Principal

DR PRINCIPAL
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Exoplanets so far

Confirmed: 4171
Candidates: 5348
Planetary Systems: 3092

Source: exoplanets.nasa.gov

4171

CONFIRMED EXOPLANETS

1395	Neptune-like
1317	Gas Giant
1293	Super Earth
160	Terrestrial
6	Unknown

Exoplanet Census

For planets with both measured or estimated orbits, period and mass

- Transit (3141)
- Radial Velocity (800)
- Microlensing (9)
- Imaging (10)
- Pulsar Timing (6)
- Other (40)

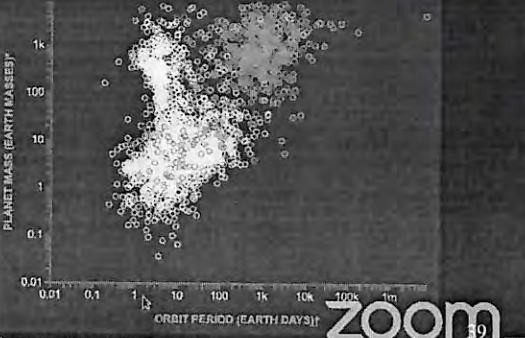
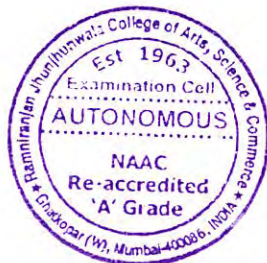


Image credits: exoplanets.nasa.gov

RP Gunde



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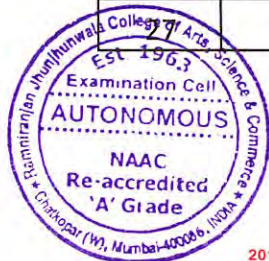
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DEPARTMENT OF PHYSICS

Guest Lecture : "Exoplanets" on 30th June, 2020

STUDENTS ATTENDANCE SHEET

SR NO	ROLL NO	CLASS	NAME OF THE STUDENT PARTICIPANT
1	201	TYBSC	ANSARI ZINNAT JANHA BADRUDDIN FATMA KHATOON
2	202	TYBSC	ASRAF NISHA A MUMTAJ
3	205	TYBSC	DHAR KARAN PRADEEP KAKOLI
4	208	TYBSC	DUBEY RISHABH SHAILENDRA MANEI BINDUDEV
5	210	TYBSC	GUPTA ABHISHEK NANDKISHOR SHARADA DEVI
6	213	TYBSC	GUPTA PRITI PREM SAGAR MUNNI
7	216	TYBSC	KANADE HRITHIK SANTOSH REETA
8	221	TYBSC	KM UJJWALA MAUZILAL GULAB DEVI
9	224	TYBSC	MAURYA SOMESHKUMAR RAMESH SUBHDRA
10	230	TYBSC	PRAJAPATI KARAN JAIPRAKASH CHANDRAKALADEVI
11	233	TYBSC	SAIYED FATIMA MUSHARAF ALI SHAISTA
12	236	TYBSC	SAWANT RUCHIRA SANTOSH MADHURA
13	242	TYBSC	SINGH VISHAL RAJAN SILTA
14	245	TYBSC	YADAV AMIT ASHOK MEENA MEENA
15	248	TYBSC	YADAV SHUBHAM VINOD DHARM SHEELA
16	253	TYBSC	NASIR HUSAIN RAZA HUSAIN MANSOORI
17	256	TYBSC	SHARMA SARASWATI CHETRAJ
18	258	TYBSC	SONI SHUBHAM LALMAN
19	1	SYBSC	ANSARI MOHD ADNAN SANAUULLAH ZIKRA KHATOON
20	2	SYBSC	AUTI OMKAR KAILAS SUJATA
21	5	SYBSC	CHADHA LOVLEENKAUR KARNAILSINGH JASPALKAUR
22	8	SYBSC	DALAI SANKET SANTOSH SUDHA
23	9	SYBSC	GAUTAM JAIPRAKASH CHINGUD PARVATI
24	10	SYBSC	GOND SANDHYA DEVKUMAR KANCHAN
25	14	SYBSC	HINGE ATHARVA GANPAT USHA
26	15	SYBSC	JADHAV RITESH PRAVIN PRANALI
	18	SYBSC	KHAN ADIBA KHALIL UR REHMAN FOUZIYA



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28	25	SYBSC	MAURYA MANISH BHOLANATH SARITADEVI
29	28	SYBSC	MISHRA SHUBHAM ANILKUMAR SARVESH
30	32	SYBSC	PATEL NITISH CHANDRASHEKHAR MUNNIDEVI
31	35	SYBSC	SALVE SHREYASH RAJENDRA SUNANDA
32	42	SYBSC	SHARMA EKTA RAMLALAK MEERA
33	50	SYBSC	SINGH VISHWAS TRIBHUVAN ANITA
34	53	SYBSC	TIWARI SHILU BASHIST SAROJ
35	56	SYBSC	YADAV DHEERAJ KUMAR LALBAHADUR MALADEVI
36	60	SYBSC	YADAV RITA JAYNATH SURYAMATI
37	63	SYBSC	GUPTA HARSHIT PARVIND SUNITA
38	72	SYBSC	YADAV SARITA RAMAKANT PRABHAVATI
39	75	SYBSC	MISHRA ANMOL VIJAY KUMAR KANCHAN
40	76	SYBSC	NADKAR SAURABH SHANKAR SHARMILA
41	78	SYBSC	RAI RISHAB AJIT SUNANDA
42	87	SYBSC	SONI MANISHA AVDRESH
43	101	SYBSC	DUBEY DEWASHYA MAHENDRANATH LALITA DEVI
44	105	SYBSC	MAURYA OM UMANATH ANITA
45	112	SYBSC	SHUKLA JYOTI MAHENDRAKUMAR SAROJ
46	113	SYBSC	SIRVI RINKU DEVRAM SANTOSH
47	115	SYBSC	TIWARI HARDIK SADANAND SUNITA
48	117	SYBSC	YADAV BABITA RAMASHANKAR INDRAVATIDEVI
49	122	SYBSC	YADAV SARVESH SATYANARAYAN
50	201	SYBSC	BHALERAO SHRADDHA HARIBHAU SAVITA
51	206	SYBSC	JAIWAL KAUSHAL SUBHASHCHANDRA ANUDEVI
52	207	SYBSC	JAYSWAL ATUL VIJAY VIDYA
53	212	SYBSC	PRAJAPATI MAHENDRALAL HIRALAL KESHAR
54	215	SYBSC	SAROJ RAMASHRAY SAURABH LAXMI DEVI
55	219	SYBSC	SINGH SANDIP KRISHANKUMAR LAKSHMI
56	226	SYBSC	CHAUBEY DIPTI ASHOK SADHANA
57	227	SYBSC	TALPE YASH YOGESH GAYATRI
58	232	SYBSC	YADAV ANKIT SAROJ GEETA
	234	SYBSC	KHAN ZIKRA FAIZI GAYASUDDIN



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61	239	SYBSC	RAI SHEETAL RAJESH
62	1	MSC-II-PHY	AGRAHARI MAMTA CHANDRAPRAKASH
63	2	MSC-II-PHY	HARMALKAR KETKI KANTA
64	3	MSC-II-PHY	JESWANI AJAY JAGDISH
65	5	MSC-II-PHY	KARANGUTKAR SIDDHESH AMARDEEP
66	6	MSC-II-PHY	KHAN KANIZ FATIMA MD SHAFIQ
67	8	MSC-II-PHY	NAIR SREELAXMI SUDHAKARAN
68	10	MSC-II-PHY	SHAIKH SAEEDAKHTAR WASIMALI
69	11	MSC-II-PHY	SHAIKH SHARUKH DILSHAD
70	13	MSC-II-PHY	UPADHYAY ANKIT KUMAR OMPRAKASH
71	15	MSC-II-PHY	YADAV RAHUL KAPTAN SINGH

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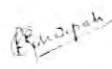
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DBT STAR COLLEGE ACTIVITY

Certificate of Participation


This is to certify that Saiyed Fatima of **TYBSc** attended the lecture **Exoplanets** delivered by **Dr. Anwesh Mazumdar** of Homi Bhabha Center for Science Education (TIFR), Mumbai on 30th June, 2020



Head, Department of Physics



Principal



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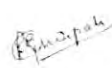
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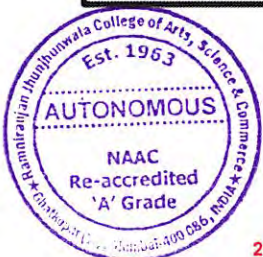
This is to certify that Harmalkar Ketki of **MSc - II** attended the lecture **Exoplanets** delivered by **Dr. Anwesh Mazumdar** of Homi Bhabha Center for Science Education (TIFR), Mumbai on 30th June, 2020



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