



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*  
*Re-Accredited with 'A++' (CGPA 3.61) by NAAC (Cycle - IV)*  
Mary Land, Madurai - 625018, Tamil Nadu

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## DEPARTMENT OF PHYSICS

**Title** : International Webinar on Astrophysics (IWOA)  
**Date** : 30-09-2021

**Resource Person/s** :

1. Dr. Krishnakumar Venkateswaran, IMAI LLC, Aliso Viejo, CA, USA.
2. Dr. Ebenezer, Resident Scientist, Kodaikanal Solar Observatory, Kodaikanal
3. Dr. Sivarani, Scientist, Indian Institute of Astrophysics, Bangalore.

**No. of Participants** : 101

**Focus on** : **Research Methodology & Skill Development**

**Outcome** :

Astrophysics is always looking to stretch boundaries - to observe fainter objects in greater detail. The research on Astronomy is continuously driven and is approaching a level where the chief goal will be to track down Earth-like planets around other stars in the “habitable zones” where life could exist. On that note, this webinar has answered some of the unforeseeable questions and unravels the specialties of the universe including cosmology, extragalactic astronomy and solar physics. This program aims to elucidate some of the important aspects of the new frontiers in astronomy with upcoming large telescopes and also to support bold, innovative research and catalyze breakthrough discoveries on big questions in astronomy. This webinar also gives an exposure to the research problems in astrophysics and skills and techniques to handle radio astronomical telescopes.



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## Report:

### Invitation/Brochure



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College with Potential for Excellence

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#### Research Centre of Physics

organizes

### International Webinar On Astrophysics (IWOA)

on 30<sup>th</sup> September 2021

#### Patrons:

Rev. Dr. Sr. Francisca Flora,  
Secretary, Fatima College.  
Rev. Dr. Sr. Celine Sahaya Mary,  
Principal, Fatima College.

#### Convener:

Dr. A. Sheela Vimala Rani,  
Head,  
Research Centre of Physics.

#### Co-Conveners:

Dr. Ancemna Joseph  
Dr. M. Ragam

"Human eye :  
Complex Optical Imaging  
Systems and Recent Advances"



Dr. Krishnakumar,  
Venkateswaran  
IMAI LLC, Aliso Viejo  
CA, USA

"Seven Mysteries in the  
Universe."



Dr. Ebenezer,  
Resident Scientist,  
Kodaikanal Solar  
Observatory,  
Kodaikanal

"New Frontiers in Astronomy with  
Upcoming Large Telescopes"



Dr. Sivarani,  
Scientist,  
Indian Institute of  
Astrophysics,  
Bangalore.

#### Organizing Committee

Dr. G. Dheva Shantha Kumari  
Dr. I. Caroline Sugirtham  
Mrs. R. Alphonsa Fernando  
Dr. M.V. Leena Chandra  
Mrs. I. Jeyasheela  
Dr. Sr. C. Jenita Rani  
Dr. R. Jothamani  
Ms. I. Janet Sherly  
Ms. J.R. Sofia

No Registration Fee

Certificates will be provided

## Text

This webinar aims to elucidate some of the important aspects of the new frontiers in astronomy with upcoming large telescopes and also to support bold, innovative research and catalyze breakthrough discoveries on big questions in astronomy. In the first session Dr. A. Sheela Vimala Rani, Head, Research centre of Physics welcomed the participants, gave the scope of the webinar and introduced Dr. Krishnakumar Venkateswaran, IMAI LLC, Aliso Viejo, CA, USA. His insightful analysis on the complex optical imaging systems enlightened the ideas of both experimentalists and theoreticians. In the second session, Dr. Ebenezer, Resident Scientist, Kodaikanal Solar Observatory, Kodaikanal delivered a lecture on seven mysteries in the universe. His stimulating speech and the ability to present the subject in such an interesting way was definitely a need of the hour.



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In the third session, Ms. Jeya Sheela, Assistant Professor, introduced Dr. Sivarani, Scientist, Indian Institute of Astrophysics, Bangalore. Her thought provoking discussions on “New Frontiers in Astronomy with Upcoming Large Telescopes” has garnered much attention among the participants. The entire event was convened by Dr. A.SheelaVimala Rani, Head, and the co conveners were Dr. Ancemma Joseph & Dr. M. Ragam, Assistant Professor, Department of Physics, Fatima College. The webinar was a huge success with around 300 participants. E- Certificates were provided to all the active participants.

## **Photos/Screen Shots (if online) with Captions**



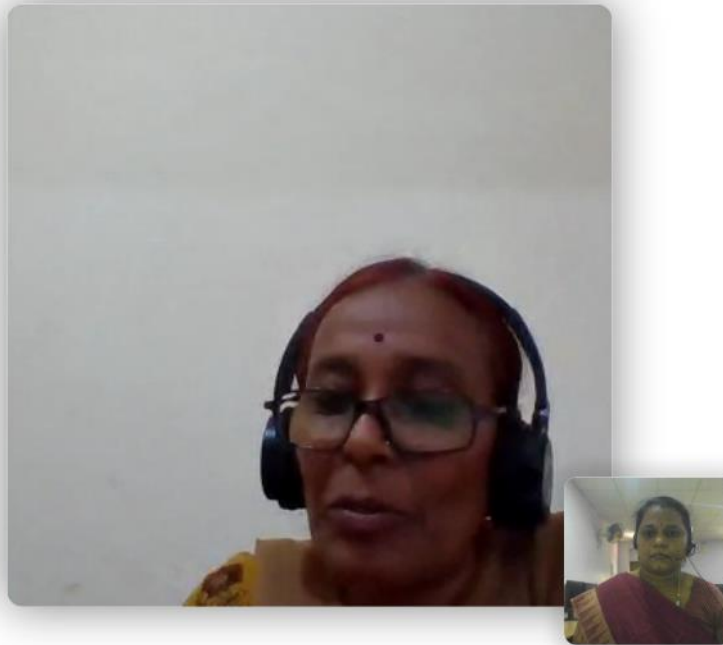
**Dr. Ebenezer, Resident Scientist, Kodaikanal Solar Observatory, Kodaikanal.**



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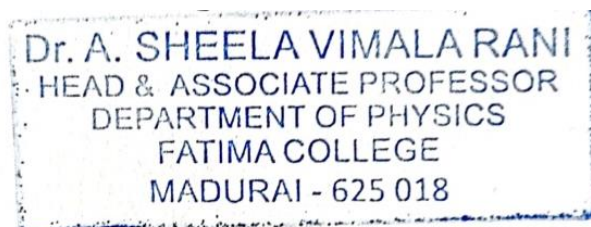
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**Dr. Sivarani, Scientist, Indian Institute of Astrophysics, Bangalore.**

A. Sheela Vimala Rani

**Signature of HOD**





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**Title : International Webinar on Astrophysics (IWOA)**

**Date : 30-09-2021**

## **Name list of Participants**

<b>S. No.</b>	<b>Name</b>	<b>Institution</b>
1.	Janet Sherly I	Fatima College, Madurai
2.	Dr. A. Sheela Vimala Rani	Fatima College, Madurai-18
3.	M. Leo Maria Benedict	Loyola College, Chennai
4.	M. Ragam	Fatima College
5.	J R Sofia	Fatima College, Madurai
6.	Avila Francina D	Fatima College (Autonomous), Mary Land, Madurai-18
7.	Assumptana Sirumalar A	Fatima College, Madurai
8.	G.Kavitha	Dr. Umayal Ramanathan College for Women, Alagappapuram, Karaikudi
9.	G.Karthiga	Madonna Arts and Science College for Women, Viraganoor, Madurai
10.	E.Muthulakshmi	Fatima College (Autonomous), Madurai
11.	Keerthana.C	Fatima College Madurai
12.	Nandhinipriya.U	Fatima College, Madurai
13.	S.Balameena	Fatima College (Autonomous)
14.	Rosaria Livrola Rayan.J	Fatima College, Madurai
15.	Dr. M. Sathishkumar	Nehru Arts and Science College
16.	P. Sathiyapriya	Madonna Arts and Science College For Women, Madurai.
17.	Sharon Mary Tomson	College Of Engineering Trivandrum, Sreekariyam, Kulathoor Rd P.O. Trivandrum - 695016
18.	M.Shrinidhy	Fatima College, Mary Land, Madurai - 625018.
19.	Sharon Mary Tomson	College Of Engineering Trivandrum, Sreekariyam-Kulathoor Rd. P.O. Sreekariyam, Trivandrum - 695016
20.	Safreen Ashima. S	Fatima College Madurai





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21.	Jasmin Fatima.G	Fatima College, Maryland, Madurai - 625018
22.	A. Darathy Celciya	Fatima College, Maryland
23.	Yogesh Sathya Moorthy	Ramakrishna Mission Vivekananda College Mylapore-600004
24.	Bhuvaneshwari V	Fatima College Madurai
25.	S.Premasri	Madonna Art's and Science College For Women
26.	Vanitha N	Sri Paramakalyani College, Alwarkurichi
27.	Rifca R	Fatima College Autonomous, Maryland, Madurai 625018
28.	C.Richa Dharani	Fatima College Madurai
29.	S.M.Sonalee	Fatima College
30.	D. Sivaranjani	Fatima College Madurai
31.	S.Deepithakumari	Fatima College Madurai 18
32.	Sarathkumar R	Thiagarajar College of Engineering, Madurai
33.	S.Kamatchi Devi	Sri Paramakalyani College, Alwarkuruchi
34.	K.Gandhiraja	Government Arts and Science College, Kovilpatti
35.	R. Thiyathra Risen	Fatima College Mary Land Madurai – 625018
36.	D Ancitta	Fatima College Autonomous Madurai
37.	Dr C Esther Jeyanthi	Panimalar Engineering College, Poonamallee, Chennai
38.	Anu C	Fatima College (Autonomous) Mary Land Madurai 625018
39.	Kiruthika R	Fatima College (Autonomous) - Madurai.
40.	Dhiyashree.M	Fatima College (Autonomous) Mary Land, Madurai
41.	Kavitha.P	Fatima College Madurai
42.	R.Roshal	Fatima College Madurai
43.	Rithika.M	Fatima College (Autonomous), Madurai.
44.	Dr. K. Jeyapappa	Ramco Institute of Technology, Rajapalayam
45.	Divain Penni J	Fatima College Madurai
46.	M. Vasumathi	Panimalar Engineering College, Bangalore Trunk Road,



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		Varadharajapuram, Nazarethpettai, Poonamallee, Chennai, Tamil Nadu 600123
47.	S. Aishwarya	Fatima College (Autonomous), Mary Land, Madurai.
48.	A. Amali Roselin	Dr. Umayal Ramanathan College for Women, Karaikudi
49.	Dr.N.R.Devi	Auxilium College, Katpadi, Vellore
50.	P. Sathiyapriya	Madonna Arts and Science College for Women In Madurai
51.	Dr.K.Parimala	Nehru Memorial College at Trichy
52.	S. Asha	Fatima College, Mary Land, Madurai
53.	Karthik M	Karunya Institute of Technology and Sciences, Coimbatore
54.	Muniraj @ Vignesh N	Mannar Thirumalai Naicker College
55.	Dr.K.Sangeetha	Muthayammal College of Arts and Science, Rasipuram
56.	S.Glory Sobha	Annai Velankanni College, Tholayavattam
57.	Dr C Esther Jeyanthi	Panimalar Engineering College, Poonamallee, Chennai
58.	N.Subhashree	Mangayarkarasi College of Arts and Science For Women
59.	J.Keerthana	Fatima College, Maryland, Madurai - 625 018.
60.	Sharon Mary Tomson	College Of Engineering Trivandrum
61.	Roshini.J	Fatima College,Madurai
62.	Gurunathan K	Madurai Kamaraj University, Madurai - 21
63.	T. Annie Varsha Sharon	Fatima College, Madurai
64.	Dr.T.Vigneswari	Ramco Institute Of Technology, Rajapalayam
65.	D.Sudha	Mangayarkarasi College of Arts and Science For Women, Paravai, Madurai
66.	Gowri M	Mangayarkarasi College of Arts and Science For Women, Madurai.
67.	Sushmitha. A	Dr. Umayal Ramanathan College for Women, Karaikudi
68.	Shamimabanu N	Mangayarkarasi College of Arts & Science For Women, Paravai, Madurai



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69.	Sivaranjani.B	Mangayarkarai College Of Arts And Science For Women,Paravai
70.	Dr M K Patil	S.R.T.M. University, Nanded
71.	Joana Preethi A	Fatima College, Madurai
72.	I. Agnes Pristy	Fatima College Madurai
73.	Sharmili T	Fatima College,Madurai
74.	Syed Shabeer Ahmed .S	Ramakrishna Mission Vivekananda College (Autonomous), Mylapore, Chennai
75.	Lokesh R	Ramakrishna Mission Vivekananda College Mylapore
76.	Vignesh Uthanumallaiah M	Ramakrishna Mission Vivekananda College, Chennai
77.	Giridharan M	Ramakrishna Mission Vivekananda College Chennai
78.	Dr. R. Uma	Bon Secours Arts And Science College For Women, Mannargudi
79.	S. L. Vaisha	Fatima College Madurai
80.	R K Santhosh	Ramakrishna Mission Vivekananda College, Mylapore, Chennai - 04
81.	M.Madhumitha	Fatima College, Madurai.
82.	Dr. M.Elamathi	Saiva Bhanu Kshatriya College, Aruppukottai, Tamilnadu.
83.	Dr.M.Rigana Begam	Vel Tech Rangarajan Dr.Sagunthala R&D Institute Of Science And Technology
84.	G.Santhana Krishnan	Vistas
85.	G.Santhana Krishnan	Maharishi Vidya Mandir
86.	Nandhini S	No:363 Arcot Rd, Nsk Salai , Kodapakkam Tamilnadu Chennai - 600024
87.	Z. Ayisha	Madonna Arts and Science College for Women, Virahanoor, Madurai
88.	C.Marshalin Reena	Fatima Colege,Madurai
89.	Nandhini.K	Fatima College (Autonomous) Maryland, Madurai_18
90.	Harinya Lakshmi S	Meenakshi College for Women
91.	Leka Sree	Meenakshi College for Women Kodambakkam
92.	L.Pooja	Fatima College,Madurai.
93.	P.Buvaneshwari	N.M.S.Svn College, Nagamalai, Madurai





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94.	Z. Ayisha	Madonna Arts and Science College for Women, Virahanoor, Madurai-09
95.	D.Anu	Modonna Arts and Science College for Women Viraganoor Madurai
96.	Anu	Madonna Arts and Science College for Womens
97.	Devishree.M	Meenakshi College for Women
98.	Manonmani.A	Madonna Arts and Science College for Women
99.	Abarna.J	Fathima College, Madurai.
100.	Dr.Ancemma Joseph	Fatima College, Madurai
101.	Sylvia Joan .J	Fatima College Madurai

*A. Sheela Vimala Rani*

**Signature of HOD**

