



Miranda House

UNIVERSITY OF DELHI

Departmental Annual Report – 3

Departmental Activities: Curriculum and Beyond

Department: Physics

Academic Year: 2020-2021 (period from 1 July 2020 – 30 June 2021)

Department Society and its Office Bearers:

Vidyut, the Physics Society of Miranda House

Office bearers for the year:

President	Manya M Kumar
Vice president	Arundathi Dev
General secretary	Joshita Sharma
Joint secretary	Gayathri KP
Treasurer	Krishnapriya KS

Staff Advisors:

Dr. Mallika Verma, Dr. Abha Dev Habib and Professor Monika Tomar



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Part B.1

Seminars/conferences/workshops conducted by the Department

A webinar “Nuts and Bolts of being an Experimental Physicist” by Dr Bernadette Rebeiro, Research fellow, France and Dr Neeraj Kumar, Senior Research Fellow at Department of Physics and Astrophysics, DU was held on 11 November 2020.
No of participants: 70

VIDYUT, THE PHYSICS SOCIETY
MIRANDA HOUSE, UNIVERSITY OF DELHI

presents

LIVE WEBINAR

on

**THE NUTS AND BOLTS OF
BEING AN EXPERIMENTAL
NUCLEAR PHYSICIST**

by

Dr. Bernadette Maria Rebeiro
Post doctoral researcher,
Institut de Physique des 2
Infinis de Lyon, France

Dr. Neeraj Kumar
Senior research fellow,
Department of Physics
and Astrophysics,
University of Delhi

**Nov 11, 2020
05:30 PM India**

Join Zoom Meeting
<https://zoom.us/j/95209264110?pwd=WXNYSjVOWWpCNTIlaG5WZjF3WEVYZz09>

Meeting ID: 952 0926 4110
Passcode: 5z4tMr

For more details
contact:
Manya : +919895025994
Arundathi : +917356384912

@VIDYUT.MIRANDAHOUSE
VIDYUTMIRANDAHOUSE@GMAIL.COM

VIDYUT, THE PHYSICS SOCIETY
MIRANDA HOUSE, UNIVERSITY OF DELHI

presents

LIVE WEBINAR

on

**BLACK HOLES - THE
ULTIMATE CHAKRAVYUH**

by

Dr. Patrick Das Gupta
Professor,
Department of Physics
and Astrophysics,
University of Delhi

**Nov 18, 2020
04:30 PM IST**

Join Zoom Meeting
<https://zoom.us/j/98901935418?pwd=c18zMTgzbnJ3RWdOeTFkUERhTGNOQT09>

Meeting ID: 989 0193 5418
Passcode: BkRj0j

For more details
contact:
Manya : +919895025994
Arundathi : +917356384912

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VIDYUTMIRANDAHOUSE@GMAIL.COM

The Physics Society organised a webinar “**Black Holes – the Ultimate Chakravayuh**” by **Professor Patrick Das Gupta**, Department of Physics and Astrophysics, University of Delhi on 18 November 2020. The talk was followed by a discussion session. No of participants: 120. Many students and research students from other institutions also joined.



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Baseline Science Test 2021 for Physics was held on 20 February 2021 under the aegis of DS Kothari Centre. It was held in the offline mode. 11 students appeared for the written test. A presentation round was scheduled for 1 July 2021 to select the winner and runner-up, Science Award 2019-20.

1/24/22, 11:57 PM

Miranda House Mail - Baseline test 2021



AbhaDev Habib <abhadev.habib@mirandahouse.ac.in>

Baseline test 2021

Mallika Verma <mallika.verma@mirandahouse.ac.in> Tue, Feb 2, 2021 at 3:27 PM
To: Physics Society <vidyut.physics@mirandahouse.ac.in>, Manya M Kumar <manyamair2001@gmail.com>
Cc: Rashmi Rakshit <rashmi.rakshit@mirandahouse.ac.in>, "AbhaDev. Habib" <abhadev.habib@mirandahouse.ac.in>, Monika Tomar <Monika.Tomar@mirandahouse.ac.in>

Dear office Bearers and CR's

We are conducting the Baseline Science Test 2021 in offline mode for the interested science students on 20 February 2021. There will be no registration fee this year. Please inform students to give in their names for the same latest by 10 February 2021.

The format for the test will be same as before which is
(i) MCQ and (ii) Numerical and concept based questions

Looking forward to a vibrant participation

Best wishes
Maam

On the occasion of Women's Day, Vidyut in collaboration with Robotics Society (Robsoc), Computer Science Society (Compuada) and Mathematics Society (Sankhya) conducted a webinar **Vistas on 8 March 2021** to celebrate work of some eminent women scientists. The panellists included (i) **Professor Sanghamitra Mohanty**, President of Odisha Bigyan Academy under the Government of Odisha, Bhubaneswar (ii) **Professor Prajval Shastri**, Professor, Indian Institute of Astrophysics and (iii) **Professor Sujatha Ramdorai**, School of Mathematics, Tata Institute of Fundamental Research, Mumbai. Over 90 students Physics, Mathematics and Computer Science attended this webinar.



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Invites you to

VISTAS

CELEBRATING THE
ELEGANCE OF WOMANHOOD



COLLABORATIVE EVENT BY ROBSOC, VIDYUT, COMPUADA AND SANKHYA ON
"INTERNATIONAL WOMEN'S DAY"

MONDAY | 08 MARCH 2021 | 10:30 AM

Chief Guests


Prof. Sanghamitra Mohanty
 Computer Scientist


Prof. Prajval Shastri
 Astrophysicist


Prof. Sujatha Ramdorai
 Mathematics Researcher

Link will be provided 30 minutes prior to the event.

FOR MORE INFORMATION CONTACT
 Rashmi Sarwal : 7017201647
 Neha Chaudhary : 7906674819
 Email: robsoc.mh@gmail.com



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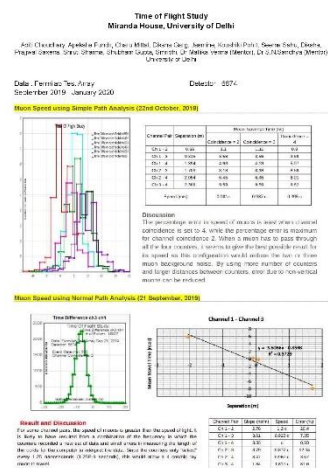
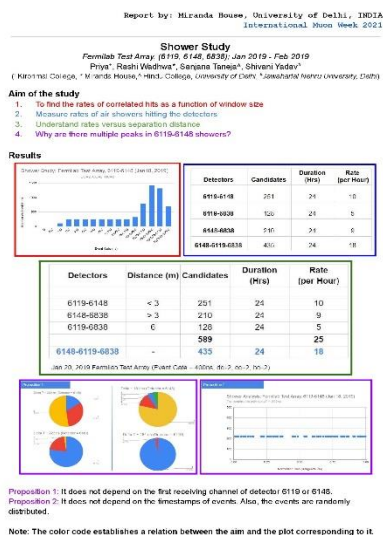
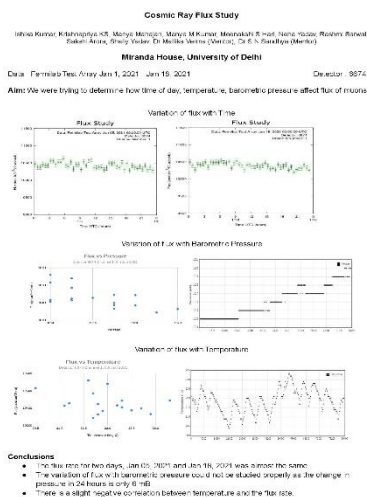
**QUARKNET
INTERNATIONAL MUON
WEEK
MARCH 8-12, 2021**



Experiments using cosmic ray muons and sharing results with others around the world.

QuarkNet: International Muon Week

As part of worldwide Cosmic Ray Flux Study, **QuarkNet International Muon Week 2021** was organized from 8 March to 12 March 2021 in association with DS Kothari Centre, Fermi Lab and QuarkNet, India. 32 students of the Department participated in this international event and shared their data and research.





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VIDYUT, THE PHYSICS SOCIETY
MIRANDA HOUSE, UNIVERSITY OF DELHI

presents

LIVE WEBINAR

on

**MIMICKING ACTIVE MATTER
IN THE LABORATORY**

by

MS. PRAGYA ARORA
Integrated PhD Student
Research advisor: Prof. Rajesh Ganapathy
Jawaharlal Nehru Centre For Advanced
Scientific Research (JNCASR)
Bengaluru

**MARCH 11, 2021
3 PM IST**

Join Zoom Meeting
[https://zoom.us/j/92052763920?](https://zoom.us/j/92052763920?pwd=UU9uaXF1N0pZemFQSnVCWmRoATZuQT09)
pwd=UU9uaXF1N0pZemFQSnVCWmRoATZuQT09

For more details
contact:
Manya : +919895025994
Arundathi : +917356384912

Meeting ID: 920 5276 3920
Passcode: D9xnTE

@VIDYUT.MIRANDAHOUSE

The Physics Society organised a webinar “**Mimicking active matter in the laboratory**” by Ms **Pragya Arora** on 11 March 2021 as part of the series where former students come to share their research work and journey.

Ms Pragya Arora, is an alumna of the Physics Department, Miranda House who is currently pursuing her PhD from Jawaharlal Nehru Centre for Advanced Research, Bangalore. It was really inspiring for all the students to learn more about their seniors who are currently pursuing their dreams in reputed institutes both in India and abroad.

No of participants: 60

Part B.2

Extension Activities organized

Summer Workshop for Undergraduate Science Students, Flavor of Research: Investigative Projects in Multidisciplinary Contexts held at the D. S. Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi, **30 June – 9 August 2020.**

Participation: 123 undergraduate Physics students from across institutions enrolled for the Summer Workshop and successfully completed their projects. 12 faculty members of the Physics Department guided 30 projects. Amongst students, 104 were from BSc (Hons) Physics. Vidyut coordinated the **Summer Workshop 2020.**

**D S Kothari Centre for
Research and Innovation in Science Education**
Miranda House, University of Delhi

Flavour of Research
Investigative Projects in Multidisciplinary Contexts

Summer Workshop
(June – July 2020)

Orientation Program
Date: 30 June 2020
11.00 am

Prerequisite: Zoom Application
Join Zoom Meeting
<https://zoom.us/j/98886335809?pwd=TWQ1ZlkrdUhCdGdmTkFCQmVHREhldz09>

Meeting ID: 988 8633 5809
Password: 7b3uQj

For info on DSKC Summer Workshop 2020 see:

<https://mirandahouse.ac.in/uploads/dskc/summerworkshop/2020%20DSKC%20Summer%20Workshop%20Report.pdf>



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Part B.3

Other events organized as part of students' activities (not listed above)



Farewell for the Batch 2017-2020

Vidyut organised Farewell was organised for the batch 2017-2020 on 25.7.2020. It was held in a virtual mode. The juniors, presented dances, songs and instrumental music to our seniors. They also shared their experience of 3 years in the Department and had a heart-to-heart talk with teachers.

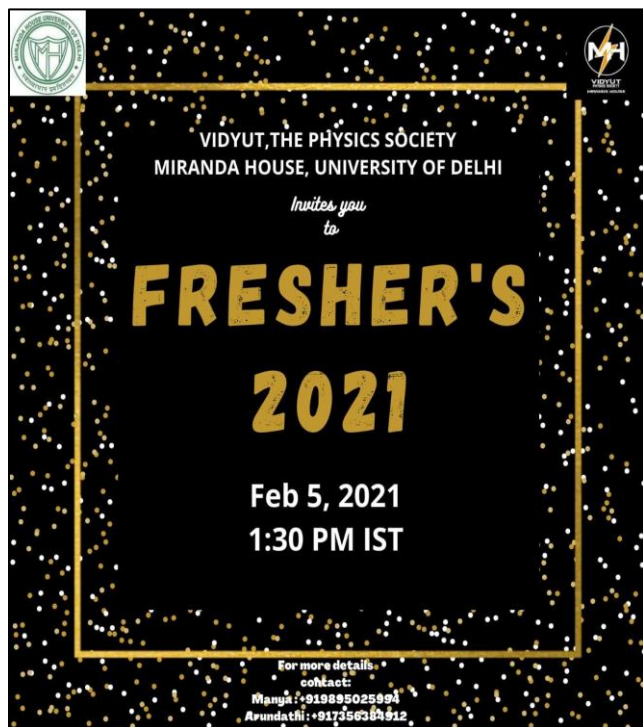
Quiz Series

Every weekend in the months of October and November, Vidyut organised online quizzes on various interesting topics related to physics like astrophysics, bio-physics, nuclear physics etc. Every session saw close to 45 -50 students. Over 90 students participated in the series.





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Freshers' Welcome for the batch 2020-2023

Freshers' welcome was organised for the first years along with an ice breaking session on 5 February 2021. They also interacted with each other. Various cultural programs were presented by the seniors and various competitions for titles were conducted for them.

The Annual Physics Fest 2021, Volt

The annual physics fest -VOLT 2021 was organized in online mode. The Physics Society arranged a series of competitions. Winners of each competition were selected and will be provided with an e-certificate and cash prizes. Events were open to students of other institutions also. Over 200 students participated in these competitions.

Competitions Organised:

Quiz Series

15 March 2021; Topic: Astrophysics

No of participants:79

16 March 2021; Topic: Nuclear and Particle Physics

No of participants: 60

17 march 2021; Topic: Physics and Physicist

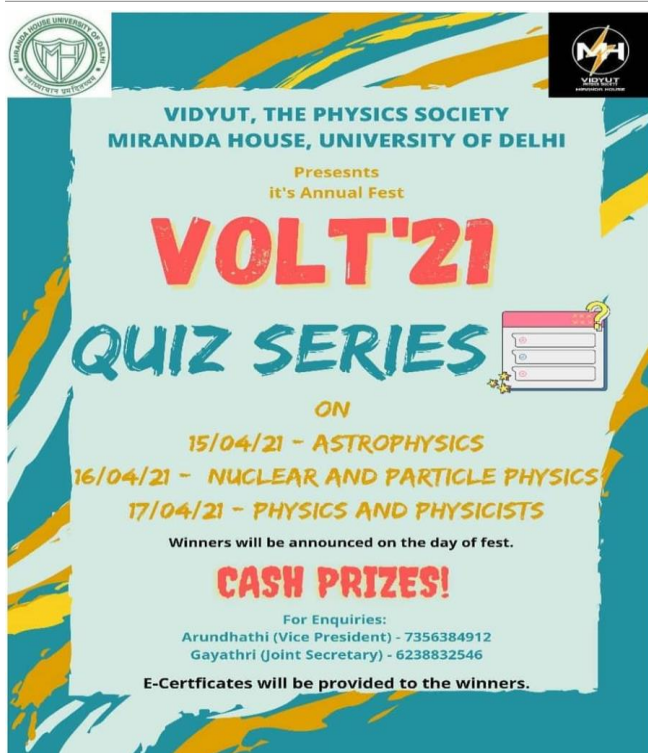
No of participants: 65





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Presents
it's Annual Fest

VOLT'21

QUIZ SERIES

ON

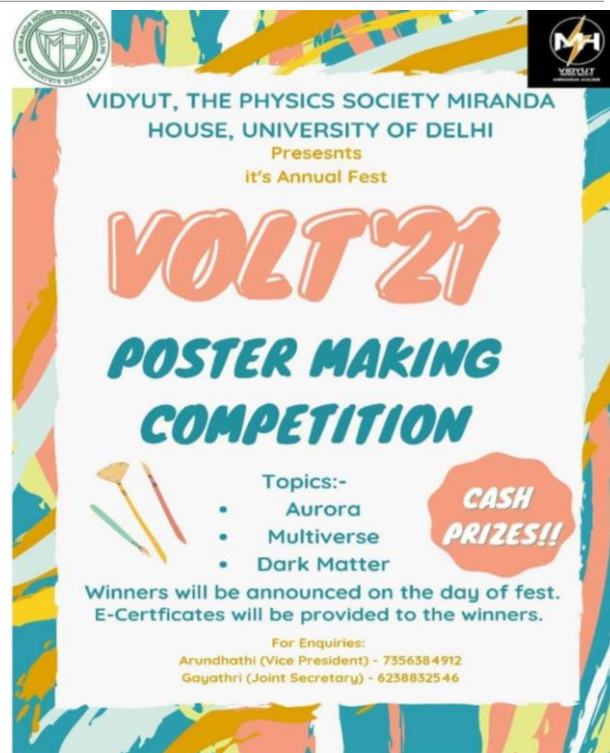
15/04/21 - ASTROPHYSICS
16/04/21 - NUCLEAR AND PARTICLE PHYSICS
17/04/21 - PHYSICS AND PHYSICISTS

Winners will be announced on the day of fest.

CASH PRIZES!

For Enquiries:
Arundhathi (Vice President) - 7356384912
Gayathri (Joint Secretary) - 6238832546

E-Certificates will be provided to the winners.



VIDYUT, THE PHYSICS SOCIETY MIRANDA
HOUSE, UNIVERSITY OF DELHI
Presents
it's Annual Fest

VOLT'21

POSTER MAKING COMPETITION

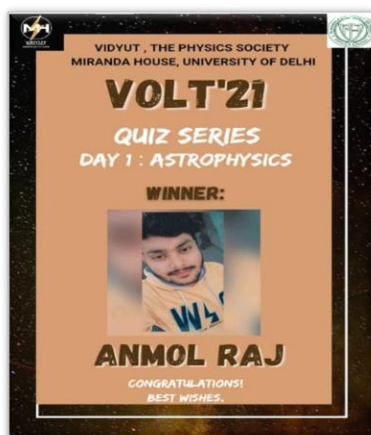
Topics:-

- Aurora
- Multiverse
- Dark Matter

CASH PRIZES!!

Winners will be announced on the day of fest.
E-Certificates will be provided to the winners.

For Enquiries:
Arundhathi (Vice President) - 7356384912
Gayathri (Joint Secretary) - 6238832546




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VOLT'21

QUIZ SERIES

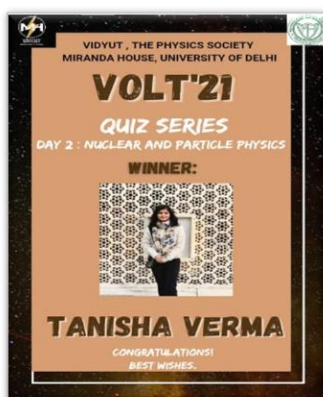
DAY 1 : ASTROPHYSICS

WINNER:



ANMOL RAJ

CONGRATULATIONS!
BEST WISHES.




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VOLT'21

QUIZ SERIES

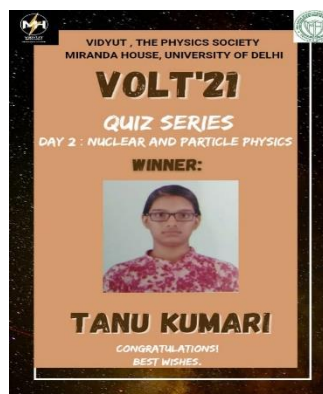
DAY 2 : NUCLEAR AND PARTICLE PHYSICS

WINNER:



TANISHA VERMA

CONGRATULATIONS!
BEST WISHES.




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VOLT'21

QUIZ SERIES

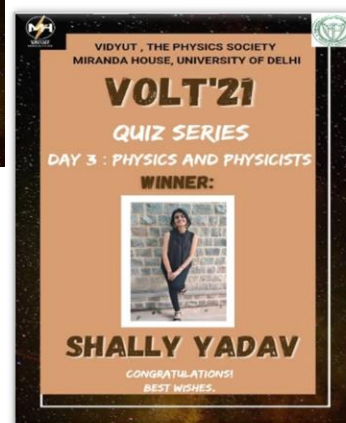
DAY 2 : NUCLEAR AND PARTICLE PHYSICS

WINNER:



TANU KUMARI

CONGRATULATIONS!
BEST WISHES.




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VOLT'21

QUIZ SERIES

DAY 3 : PHYSICS AND PHYSICISTS

WINNER:



SHALLY YADAV

CONGRATULATIONS!
BEST WISHES.



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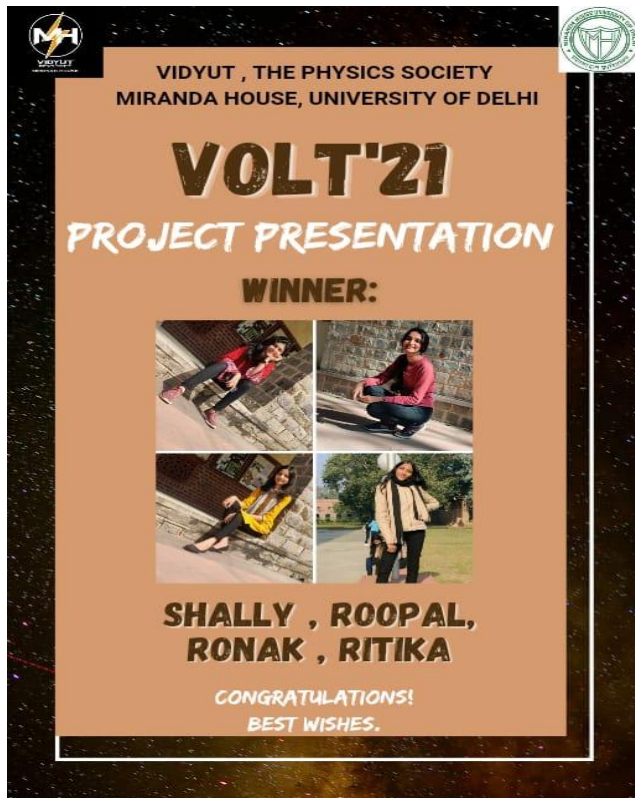
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Project presentation competition
(Tinker-cad projects were also allowed)





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Farewell to Dr Mallika Verma

On 31 May 2021, Vidyut organized an online farewell party to felicitate Dr Mallika Verma, who has been the backbone of the Physics Department for more than 30 years. It was a small expression of Gratitude from our side to one of our most supportive teachers. Former students who had worked on their project under Dr Mallika Verma also attended the programme.

