

# Inauguration of Diamond Jubilee Webinar series

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Department of Physics

## An international webinar on (Super)-Resolution with Far Field Optics

by

**Prof. Paul Urbach**

Optics Research Group, Delft University of Technology  
Research Director of the Dutch Optics Centre, Netherlands  
Immediate Past-President of the European Optical Society



**CHRIST COLLEGE**  
(AUTONOMOUS) IRINJALAKUDA-KERALA

Date :

22<sup>nd</sup> July 2020, Wednesday

Time :

12.30 - 13.30 (IST)

### About the Topic

The classical resolution limit ( $\lambda/2NA$ ) is the maximum that can be achieved with far-field optics without special non-linear effects or metamaterials. In this presentation, we describe the apparent contradiction and explain under what special circumstances the classical resolution limit can be beaten and super-resolution can be realized.

Registration Link : [forms.gle/WLTYNNaQU1m5XDpn9](https://forms.gle/WLTYNNaQU1m5XDpn9)

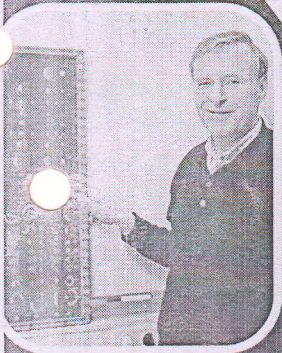
### Platform:

The lecture will be delivered using the Zoom application and YouTube channel. Link will be sent to the registered participants by e-mail.

### Certificate:

E-certificate will be provided to all the participants after submission of a feedback form which will be made available after the presentation.

Christ College, Irinjalakuda is one of the renowned educational institutions in Kerala with a time-honored tradition, affiliated to University of Calicut and re-accredited by NAAC with A grade. Started in 1960, Department of Physics has a long tradition of teaching Physics in the undergraduate and post-graduate levels. In the year 2010, the department has been elevated to the status of research centre under the University of Calicut. The department is celebrating its Diamond Jubilee this year.



Prof. Paul Urbach obtained his Ph. D. from the University of Groningen, Netherlands in the year of 1986. He joined Philips Research Laboratory in the same year and in 1994 he became Principal scientist of Physics Research laboratory. In 2000, he became part-time Professor in Diffraction optics at Delft University of Technology, Netherlands. Since January 2008, he is full Professor and head of the Optics Research Group of T. U. Delft. He has been the President of European Optical Society (EOS) for two terms, is currently member of the board of both The International Commission for Optics (ICO) and EOS. He is Board member of PhotonicsNL and scientific director of the Dutch Optics Centre (DOC). His current research interest are in new methods to improve resolution and sensitivity in microscopic and nanoscopic optics using all properties of light, i.e. amplitude, phase, polarisation and

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## International Webinar on Super Resolution with Far field optics

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| 7/18/2020 14:20:42 | pdshaju1@gmail.com                       | Dr. P. D. Shaju             | Christ College                                                                 | Associate Professor                   |
| 7/18/2020 20:49:33 | aketan9485@gmail.com                     | Adhye Ketan Anil            | K. N. Bhise College, Kurduwadi.                                                | Assistant Professor                   |
| 7/18/2020 20:49:57 | aketan9485@gmail.com                     | Adhye Ketan Anil            | K. N. Bhise College, Kurduwadi.                                                | Assistant Professor                   |
| 7/18/2020 20:51:10 | bincym2438@gmail.com                     | Bincy. M                    | Govt arts and science college kozhikode                                        | Second year Msc Physics               |
| 7/18/2020 20:51:53 | aloyasia.francis98@gmail.com             | Aloysia Francis Vadukut     | Christ College Irinjalakuda                                                    | Student                               |
| 7/18/2020 20:52:01 | sisjeesa@gmail.com                       | Dr. Sr. Jessy Mathew N      | Mercy College, Palakkad                                                        | Assistant Professor                   |
| 7/18/2020 20:52:21 | amrutha.sasidharan@gmail.com             | Amrutha Sasidharan          | SREE NARAYANA COLLEGE, NATTIKA                                                 | Assistant Professor in Physics        |
| 7/18/2020 20:57:09 | anishavarghese9390@gmail.com             | Anisha Varghese             | Mar athanasius college Kothamangalam                                           | Student                               |
| 7/18/2020 20:59:28 | ransomgeorge1997@gmail.com               | RANSOM GEORGE               | CHRIST COLLEGE IRINJALAKKUDA                                                   | STUDENT                               |
| 7/18/2020 21:02:20 | josephsunny1106@gmail.com                | Jose Sunny                  | Christ College (Autonomous) Irinjalakuda                                       | Assistant Professor                   |
| 7/18/2020 21:03:25 | shanusiva999@gmail.com                   | Shanu A S                   | St.Thomas' College(Autonomous), Thrissur                                       | Research scholar                      |
| 7/18/2020 21:04:45 | aleenageorge0723@gmail.com               | ALEENA GEORGE               | Newman College Thodupuzha Kerala                                               | Student                               |
| 7/18/2020 21:07:54 | kuvama998@gmail.com                      | SUVARNA K                   | St. Joseph's College, Devagiri, Kozhikode.                                     | Student, MSc. Physics                 |
| 7/18/2020 21:11:44 | divyashaju20@gmail.com                   | Divya Shaju                 | Union Christian College ,Aluva                                                 | Student                               |
| 7/18/2020 21:13:00 | anusreekunnikkal@gmail.com               | ANUSREE K                   | GOVT ARTS AND SCIENCE COLLEGE MEENCHANDA CALICUT                               | MSC PHYSICS                           |
| 7/18/2020 21:13:17 | mgowri27@gmail.com                       | Greeshma Mohan              | CEM, THIRUVANANTHAPURAM                                                        | Adhoc faculty                         |
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| 7/18/2020 21:20:26 | aleefathasneem13@gmail.com               | Aleefa Thasneem C A         | Union Christian College Aluva                                                  | Student                               |
| 7/18/2020 21:25:08 | minukm89@gmail.com                       | Minu K M                    | Sree Narayana College, Nattika                                                 | Assistant Professor                   |
| 7/18/2020 21:26:14 | jincythms@gmail.com                      | Jincy Thomas                | CKGM GOVERNMENT COLLEGE PERAMBRA                                               | Assistant Professor of Physics        |
| 7/18/2020 21:34:20 | masarus@gmail.com                        | MARIA MOOKKEN               | Carmel College Mala                                                            | Guest lecturer                        |
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| 7/18/2020 21:38:10 | keerthanakrishnap@gmail.com              | Keerthana Krishna P         | VIT Vellore                                                                    | PG Student                            |
| 7/18/2020 21:39:01 | lyjoonline@gmail.com                     | Dr Lyjo K Joseph            | Government College Kottayam                                                    | Assistant Professor                   |
| 7/18/2020 21:40:46 | 7.sachu@gmail.com                        | SACHINDAS V.                | T.I.M.E. Institute                                                             | Physics Tutor                         |
| 7/18/2020 21:41:48 | bhadenishank123@gmail.com                | Nishank Bhade               | Savitribai phule pune university                                               | Student                               |
| 7/18/2020 21:44:30 | annmariasymon5@gmail.com                 | Ann Maria Symon             | Christ College Autonomous Irinjalakuda                                         | Student                               |
| 7/18/2020 21:55:23 | siyanavas17@gmail.com                    | Alsiya Navas                | Christ college, Irinjalakuda                                                   | Student                               |
| 7/18/2020 22:13:42 | irenelucjv@gmail.com                     | Irene Joy V                 | Christ College Irinjalakuda                                                    | Student                               |
| 7/18/2020 22:34:29 | melvintheikkanath@gmail.com              | Melvin Varghese             | Al Ameen, Edathala                                                             | Masters students                      |
| 7/18/2020 22:39:53 | ajmal1729@gmail.com                      | Ajmal Ibn Mohammed Alii VIT |                                                                                | Student                               |
| 7/18/2020 22:41:46 | brahmadathanvb6@gmail.com                | BRAHMADATHAN V B            | SHARAFUDDIN SCHOOL                                                             | PHYSICS TEACHER                       |
| 7/18/2020 22:46:01 | drbindurg@gmail.com                      | Dr BINDU R G                | NSS College, Nilamel, Kollam                                                   | Assistant Professor                   |
| 7/18/2020 23:02:49 | yathishai@gmail.com                      | Yathishai A K               | Gurukulam Public School, Thrissur                                              | PGT                                   |
| 7/18/2020 23:20:12 | annief@icck-kw.com                       | Mrs Annief                  | The Indian Community School Kuwait                                             | Post Graduate Trained Teacher         |
| 7/19/2020 0:14:28  | mylinton@gmail.com                       | Reny Linton                 | Indian Educational School, Kuwait                                              | Teacher                               |
| 7/19/2020 0:15:09  | tuneyeldho@gmail.com                     | Tuney Eldo                  | Indian Educational School, Kuwait                                              | Teacher                               |
| 7/19/2020 0:43:52  | lijojorge89@gmail.com                    | Lijo P. George              | Indian Educational School, Kuwait                                              | Teacher                               |
| 7/19/2020 7:54:59  | esmidavis095@gmail.com                   | Esmi Davis                  | Sahrdaya college kodakara                                                      | Asst. Professor                       |
| 7/19/2020 7:56:04  | hijscj@gmail.com                         | Joy Prabu. H                | St. Joseph's college (Autonomous)                                              | Assistant Professor                   |
| 7/19/2020 8:04:52  | anjanasnair21@gmail.com                  | Anjana S Nair               | MG UNIVERSITY KOTTAYAM                                                         | Research scholar                      |
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| 7/19/2020 8:31:09  | frincy2006@yahoo.co.in                   | Frincy Francis              | St Teresa's college                                                            | Research Scholar                      |
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| 7/19/2020 8:48:41  | mvigneswaran005@gmail.com                | M Vigneswaran               | Bharathidasan University                                                       | Research scholar                      |
| 7/19/2020 8:49:11  | marwal_avinash@yahoo.com                 | Dr Avinash Marwal           | Mohanlal Sukhadia University                                                   | Assistant Professor                   |
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| 7/19/2020 9:31:49  | jabeen.fatima.mj@gmail.com               | Dr. Jabeen Fatima M J       | Cochin University of Science and Technology                                    | Post-Doctoral Fellow                  |
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| 7/19/2020 11:32:49 | mshannmuganathan2015@gmail.com           | Dr.M.Shannmuganathan        | Panimalar Engineering College                                                  | Assistant Professor                   |
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| 7/19/2020 11:51:27 | rahulgupta.ycet14@gmail.com              | Rahul Gupta                 | YCET                                                                           | Lecturer                              |
| 7/19/2020 12:04:16 | bbvsvprasad@gmail.com                    | Dr. B B V S Vara Prasad     | MVGR COLLEGE OF ENGINEERING(A)                                                 | Assistant Professor                   |
| 7/19/2020 12:26:46 | selwinjosephus@gmail.com                 | Dr.R.Selwin Joseyphus       | Mar Ivanios College (Autonomous), Thiruvananthapuram                           | Assistant Professor of Chemistry      |
| 7/19/2020 12:28:12 | devaraman@gmail.com                      | DEVARAJAN U                 | University of Madras, Chennai                                                  | Dr. D.S. Kothari Post Doctoral Fellow |
| 7/19/2020 12:47:54 | himabindu.b@sreyas.ac.in                 | Mrs. Himabindu Bantikatti   | Sreyas Institute Of Engineering And Technology                                 | Assistant Professor                   |
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| 7/19/2020 13:00:17 | jnavarghese@gmail.com          | JEENA VARGHESE             | Adam Mickiewicz University                                              | PhD student                                        |
| 7/19/2020 13:08:27 | kruthika.b.m@gmail.com         | Kruthika. B                | Parisutham Institute of Technology and Science- Thanjavur               | Assistant professor                                |
| 7/19/2020 13:26:26 | tbala11@gmail.com              | BALAGANAPATHI T            | Pondicherry University                                                  | Research Scholar                                   |
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| 7/19/2020 13:57:34 | k.thamhina2@gmail.com          | Katike Thamhina            | Ashoka Women's Engineering College                                      | Assistant Professor                                |
| 7/19/2020 14:14:28 | guptarohit565@gmail.com        | Rohit Gupta                | Ycet Jammu                                                              | Lecturer                                           |
| 7/19/2020 14:26:23 | mbkphy@gmail.com               | Mahantesha B K             | Mangalore University                                                    | Research Scholar                                   |
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| 7/19/2020 15:04:02 | sfloweretch@gmail.com          | Viji M O                   | ST JOSEPH'S COLLEGE, IRINJALAKUDA                                       | ASSISTANT PROFESSOR                                |
| 7/19/2020 15:45:23 | arunbanotra451@gmail.com       | Dr. Arun Banotra           | University of Jammu                                                     | Lecturer                                           |
| 7/19/2020 15:48:00 | priyaahsubramani@gmail.com     | SHANMUGA PRIYA             | INSTITUTE OF NANOSCIENCE AND TECHNOLOGY                                 | PROJECT ASSISTANT                                  |
| 7/19/2020 16:19:03 | neevan.iict.nitw@gmail.com     | T. Naveen Reddy            | TKR College of Engineering and Technology                               | Assistant Professor                                |
| 7/19/2020 16:42:28 | sourmyaasokan11@gmail.com      | Sourmya Asokan             | IIST                                                                    | Research Scholar                                   |
| 7/19/2020 16:42:56 | jithasjayan7652@gmail.com      | Jitha S Jayan              | Amrita Vishwa Vidyapeetham, Amritapuri                                  | Research Scholar                                   |
| 7/19/2020 16:50:27 | nishabala21@gmail.com          | NISHA BALA                 | Department of Physics & Astrophysics, University of Delhi               | PhD Research Scholar                               |
| 7/19/2020 16:52:25 | sajithasjayanss@gmail.com      | Sajitha S Jayan            | Bishop Moore College Mavelikara                                         | Student                                            |
| 7/19/2020 17:13:00 | alimohammed4@gmail.com         | SHAIK MOHAMMED ALI         | Trident Academy of Technology                                           | Assistant Professor                                |
| 7/19/2020 17:16:57 | jhanisranidvr@gmail.com        | Dr. D. Jhansi Rani         | GATES Institute of Technology                                           | Assistant Professor                                |
| 7/19/2020 17:51:04 | panakkal@yahoo.com             | Dr. Jose PPanakkal         | BARC/Department of Atomic Energy                                        | Ex. Outstanding Scientist and Raja Ramanna Fellow. |
| 7/19/2020 17:55:19 | nimishapariyadath@gmail.com    | Nimisha Prasad             | Our Own English School, Fujairah, UAE                                   | Teacher                                            |
| 7/19/2020 17:56:19 | raghavendrasagar@mit.edu       | Dr. Raghavendra Sagar      | Mangalore Institute of Technology and Engineering                       | Associate Professor                                |
| 7/19/2020 17:59:26 | sikhasimon89@gmail.com         | Sikha Simon K.             | Dept. Of Physics, St. Thomas College (Autonomous), Thrissur             | Assistant Professor                                |
| 7/19/2020 18:01:07 | sethulekshmi.vkm@gmail.com     | SETHULEKSHMI A.S           | Amrita Vishwa Vidyapeetham                                              | Research Scholar                                   |
| 7/19/2020 18:20:22 | sarveshsatpute11@gmail.com     | Sarvesh Pravin Satpute     | Nil                                                                     | Nil                                                |
| 7/19/2020 18:43:07 | rajteja016@gmail.com           | Borusu Raj Theja           | ISRO/VSSC                                                               | Tech asst                                          |
| 7/19/2020 18:43:38 | aryanairjs@gmail.com           | Arya Nair J.S              | Indian Institute of Space Science and Technology                        | Research Scholar                                   |
| 7/19/2020 18:44:10 | keerthibikrshn@gmail.com       | Dr. Keerthi. K             | Union christian college, aluva                                          | Research fellow                                    |
| 7/19/2020 18:59:00 | satheeshc3@gmail.com           | Dr. R. SATHEESH            | Mannar Thirumalai Naicker College, Madurai-4                            | Assistant Professor in Chemistry                   |
| 7/19/2020 19:27:13 | chalanasr@gmail.com            | Dr. chalanas.S.R           | TKMM College, Nangarkulangara, Harippad, Alappuzha                      | assistant Professor                                |
| 7/19/2020 19:34:00 | kshemathomas1@gmail.com        | Annam Kshema Thomas        | Christ college Irinjalakuda Autonomus                                   | Student                                            |
| 7/19/2020 19:36:57 | joshiypkd2314@gmail.com        | Anex Joshy C               | Christ College Irinjalakuda                                             | Student                                            |
| 7/19/2020 19:48:57 | adarshrviswanathan@gmail.com   | Adarsh R                   | Christ College (autonomous) Irinjalakuda                                | 3rd year BSc Physics student                       |
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| 7/19/2020 20:03:14 | thanoos.gis@gmail.com          | Thanu Sudeesh              | Union Christian College, Aluva                                          | Faculty                                            |
| 7/19/2020 20:04:33 | nakulvarma2000@gmail.com       | Nakul Ramesh Varma         | Christ College Irinjalakuda                                             | Student                                            |
| 7/19/2020 20:05:26 | Ronaldrochards@gmail.com       | Ronald sajan               | Christ college (autonomous) Irinjalakuda, Thrissur, kerala              | Undergraduate                                      |
| 7/19/2020 20:23:46 | bmkgas@gmail.com               | Dr. Kanickairaj B          | St. Joseph's College (Autonomous), Trichy - 620002                      | Associate Professor                                |
| 7/19/2020 20:24:30 | naijya.maryam@gmail.com        | Naijya Maryam K.M          | PSMO College Tirurangadi                                                | Asst. Professor                                    |
| 7/19/2020 20:35:24 | sihibju.info@gmail.com         | SIJI CL                    | CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA                                | GUEST LECTURER                                     |
| 7/19/2020 20:36:27 | hridyapraveen88@gmail.com      | Hridya R P                 | Universal Engineering College                                           | Assistant professor                                |
| 7/19/2020 20:44:01 | sreelakshmitreal@gmail.com     | Sreelakshmi S              | Christ College Autonomous, Irinjalakkuda                                | Student                                            |
| 7/19/2020 20:49:01 | lastlight909@gmail.com         | Chacko Shaju               | Christ college                                                          | Student                                            |
| 7/19/2020 21:00:50 | malumadanasundaran01@gmail.com | Malavika K                 | Christ college Irinjalakuda                                             | Student                                            |
| 7/19/2020 21:04:20 | tdas1000.ismphysics@gmail.com  | Dr. T. Trupti Ranjan Das   | CET Bhubaneswar                                                         | Guest Faculty                                      |
| 7/19/2020 21:06:31 | anelidajk@gmail.com            | Anelda Jose                | Christ college                                                          | Irinjalakuda                                       |
| 7/19/2020 21:32:54 | haldanepaulm@gmail.com         | Haldane paul               | Independent                                                             | Student                                            |
| 7/19/2020 22:03:30 | aparnaprakash672@gmail.com     | APARNA K                   | CHRIST COLLEGE IRINJALAKUDA                                             | STUDENT                                            |
| 7/19/2020 22:06:40 | carolinsanthosh236@gmail.com   | Carolín Santhosh           | Christ College Autonomous, Irinjalakuda                                 | Student                                            |
| 7/19/2020 22:09:44 | jeisonjoseph@gmail.com         | Dr. Jaison Joseph          | Government College of Arts Science and Commerce, Khandola, Marcela, Goa | Associate Professor                                |
| 7/19/2020 22:24:39 | sharonsibi00@gmail.com         | SHARON V.S                 | VIMALA COLLEGE THRISSUR                                                 | RESEARCH SCHOLAR                                   |
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| 7/19/2020 23:43:17 | gomsnatarajan.pons@gmail.com   | Gomathy P                  | National Engineering College, Kovilpatti, Tamilnadu                     | Assistant Professor (SG)                           |
| 7/20/2020 0:06:20  | qualityedn@gmail.com           | Manojkumar T P             | KEMS                                                                    | Principal                                          |
| 7/20/2020 0:11:28  | joshiyabraham@gmail.com        | Joshiy Abraham             | MES College Nedumkandam                                                 | Idukki Nedumkandam                                 |
| 7/20/2020 0:12:07  | joshiyabraham@gmail.com        | Joshiy Abraham             | MES College Nedumkandam                                                 | Idukki                                             |
| 7/20/2020 1:10:55  | rajkumar.srec@gmail.com        | RAJKUMAR C                 | UNIVERSITY OF ALLAHABAD                                                 | Research scholar                                   |
| 7/20/2020 6:24:59  | malinjayaram@gmail.com         | Dr Malini K A              | Vimala College Autonomous, Thrissur                                     | Assistant Professor                                |
| 7/20/2020 6:58:34  | aneeshnithy@gmail.com          | Dr Aneesh George           | Vimala College (Autonomous), Thrissur                                   | Assistant Professor                                |
| 7/20/2020 7:00:35  | smithashanmughan@gmail.com     | Smitha Bhaskaran           | Vimala College, Thrissur                                                | Research Scholar                                   |
| 7/20/2020 8:24:47  | mewinvincent@gmail.com         | mewin vincent              | Imdea Materials institute                                               | Research assistant                                 |
| 7/20/2020 8:25:01  | ambilygvc@gmail.com            | Ambily Krishnan            | Govt. Victoria College, Palakkad                                        | Assistant Professor of Physics                     |
| 7/20/2020 8:45:30  | lakshminathsree@gmail.com      | SREELAKSHMI H NATH         | CHRIST COLLEGE IRINJALAKUDA                                             | Student                                            |
| 7/20/2020 8:54:06  | riyajason1999@gmail.com        | Riya JASON                 | Christ College Irinjalakuda                                             | Student                                            |
| 7/20/2020 8:59:46  | adithaiparambath@gmail.com     | Adithya.T.P                | Christ College Irinjalakuda (Autonomous)                                | Student                                            |
| 7/20/2020 9:54:17  | goutham160296@gmail.com        | Cilaveri Goutham           | Indian Institute of Technology Hyderabad                                | Research Scholar                                   |
| 7/20/2020 10:12:49 | sweetypereira269@gmail.com     | Sweetie Pereira            | Christ college Irinjalakuda                                             | Student                                            |
| 7/20/2020 10:13:48 | haripriyavks@gmail.com         | Haripriya V K              | Vimala College, Thrissur                                                | Research Scholar                                   |
| 7/20/2020 10:21:55 | kesline246@gmail.com           | Kesline Wilson             | Christ College Irinjalakuda (Autonomous)                                | Student                                            |
| 7/20/2020 10:39:02 | anjukrish29@gmail.com          | Anju krishna               | College (Christ college irinjalakkuda)                                  | Student                                            |
| 7/20/2020 10:41:29 | anjukrish29@gmail.com          | Anju Krishna               | College ( christ college irinjalakkuda)                                 | Student                                            |
| 7/20/2020 10:44:13 | gigivarghese11@gmail.com       | Angel Mariya I             | Christ college (autonomous), Irinjalakuda                               | Student                                            |
| 7/20/2020 10:44:28 | farhan952628@gmail.com         | FARHAN A F                 | CHRIST COLLEGE IRINJALAKUDA                                             | STUDENT                                            |
| 7/20/2020 10:53:52 | prathibhavspap@gmail.com       | Dr. Prathibha Vasudevan    | St.Thomas College, Kozhencherry                                         | Assistant Professor                                |
| 7/20/2020 11:32:36 | bincyjohnfdcc@gmail.com        | Dr. Bincy John             | St.Joseph's College for Women, Alappuzha                                | Assistant Professor on Contract                    |
| 7/20/2020 11:36:14 | marieil.fdcc@gmail.com         | Dr. Morris Marieil Antoine | St. Joseph's College for Women, Alappuzha.                              | Assistant Professor on Contract                    |
| 7/20/2020 11:56:06 | suresh.bm@saintgits.org        | Suresh Babu M              | Saintgits College of Engineering, Kottayam                              | Assistant Professor                                |
| 7/20/2020 11:57:18 | pradyup@gmail.com              | Prof.Dr.P.P.Pradyumn       | University of Calicut                                                   | Professor                                          |
| 7/20/2020 12:05:33 | himabindu.b@sreyas.ac.in       | Mrs. Himabindu Bantikatti  | Sreyas Institute Of Engineering And Technology                          | Assistant Professor                                |
| 7/20/2020 12:22:02 | jifjose05@gmail.com            | Jif Jose                   | St.Thomas College,Kozhencherry                                          | Guest Lecturer                                     |
| 7/20/2020 12:23:18 | joicy.abraham@saintgits.org    | JOICY ABRAHAM              | Saint gits college of engineering and technology                        | Assistant professor                                |
| 7/20/2020 12:23:47 | joicy.abraham@saintgits.org    | JOICY ABRAHAM              | Saint gits college of engineering and technology                        | Assistant professor                                |
| 7/20/2020 12:30:56 | sree150394@gmail.com           | SREEKALA P NAIR            | St. Thomas College, Kozhencherry, Pathanamthitta, Kerala                | Guest Lecturer                                     |
| 7/20/2020 12:39:08 | karthiekarrarja@gmail.com      | KARTHIKA R R               | Madras University                                                       | Research scholar                                   |
| 7/20/2020 13:02:26 | kruthikabme@gmail.com          | Kruthika B                 | Parisutham Institute of Technology and Science- Thanjavur.              | Assistant Professor                                |
| 7/20/2020 13:21:25 | niranjanacv1@gmail.com         | Niranjana C V              | Christ college Irinjalakuda                                             | Student                                            |

| Timestamp          | Email Address            | Name:                    | Institution/Organization:                                                    | Designation:                   |
|--------------------|--------------------------|--------------------------|------------------------------------------------------------------------------|--------------------------------|
| 7/20/2020 14:30:56 | matla.sujai@gmail.com    | Sujai Matta              | University of Hyderabad                                                      | Research Scholar               |
| 7/20/2020 14:37:43 | upasanabaishya@gmail.c   | Upasana Baishya          | University of Hyderabad                                                      | Research scholar               |
| 7/20/2020 14:49:16 | manishruthireddy@gmail.  | Julakanti Shruthi        | Osmania University Hyderabad                                                 | Research scholar               |
| 7/21/2020 16:17:31 | vijayaes04@gmail.com     | VIJAYA E. S.             | Christ college(Autonomous) Irinjalakuda                                      | Assistant professor ( Self)    |
| 7/20/2020 16:56:44 | naftaparveen736@gmail.i  | Nafta Parveen.M.A        | Christ College Irinjalakkuda                                                 | Bsc physics final year student |
| 7/20/2020 17:05:24 | julietbiju2018@gmail.com | JULIET BIJU              | Christ College Irinjalakuda, Thrissur                                        | Bsc Physics (Final Year )      |
| 7/22/2020 8:27:24  | riyachackochan98@gmail   | RIYA CHACKOCHAN          | SACRED HEART COLLEGE THEVARA                                                 | student [1]                    |
| 7/20/2020 18:58:15 | arkilang22@gmail.com     | Arkilang Challam         | University of Hyderabad                                                      | Research Scholar               |
| 7/20/2020 19:13:10 | vimunamurali@gmail.com   | VIMUNA V M               | Government college for women                                                 | Research scholar               |
| 7/20/2020 19:28:09 | kathuanitha@gmail.com    | KARTHIKA S KUMAR         | SACRED HEART COLLEGE, THEVARA                                                | Ms                             |
| 7/20/2020 19:33:32 | hashirp.916@gmail.com    | Hashir P                 | University of Calicut                                                        | Research Scholar               |
| 7/20/2020 22:50:04 | sharonsibi00@gmail.com   | Sharon v.s               | Vimala college thrissur                                                      | Research scholar               |
| 7/21/2020 9:06:51  | kuttukn@gmail.com        | Honey K Nandakumar       | Snmhss chazhur                                                               | Teacher                        |
| 7/21/2020 9:30:40  | annamarydavis410@gma     | Annamary Davis           | Christ college Autonomous, IJK                                               | Student                        |
| 7/21/2020 9:30:52  | vibhprasad285@gmail.c    | Vibha Prasad             | Christ college irinjalakkuda                                                 | Student                        |
| 7/21/2020 9:31:56  | aiswaryasathyan30700@    | Aiswarya K S             | christ college irinjalakuda                                                  | student                        |
| 7/21/2020 9:34:12  | anniemoldaison2000@gn    | Anniemol Daison          | Christ College                                                               | Student                        |
| 7/21/2020 9:35:24  | anniemoldaison2000@gn    | Anniemol Daison          | Christ college                                                               | Student                        |
| 7/21/2020 9:39:36  | mvigneswaran005@gmai     | M Vigneswaran            | Bharathidasan University                                                     | Research Scholar               |
| 7/21/2020 9:52:58  | kalavimal6@gmail.com     | Kalajanan                | Mar Dionysius College, Pazhanji                                              | Assistant Professor            |
| 7/21/2020 11:12:27 | rajis1051995@gmail.com   | RAJI S                   | SN College Kollam, Kerala                                                    | MSc Chemistry [2]              |
| 7/21/2020 11:01:54 | 2345jaison@gmail.com     | Paulmon T Jaison         | Christ College Irinjalakuda                                                  | Third year Bsc Physics         |
| 7/21/2020 11:07:30 | akashasc2019@gmail.co    | Sruthy Chandran          | Assumption College Changanacherry                                            | Student                        |
| 7/21/2020 11:23:07 | shreyajayaprakash@gma    | Shreya Jayaprakash       | Christ college irinjalakuda                                                  | Student                        |
| 7/21/2020 11:39:58 | rapavith19@gmail.com     | PAVITHRA D               | Mahendra Arts and science College Autonomous                                 | Student                        |
| 7/21/2020 11:53:23 | krishnapriya.s.edachal   | Krishnapriya E S         | Christ college irinjalakuda [3]                                              | Student                        |
| 7/21/2020 11:52:12 | sreelakshimpazhal@gm     | Sreelakshmi p            | Christ college irinjalakuda                                                  | Student                        |
| 7/21/2020 11:59:59 | donpellissery2001@gma    | DON P SUNNY              | Christ college irinjalakuda                                                  | Student                        |
| 7/21/2020 14:21:36 | bejoyjayarson@gmail.co   | Bejoy Jayarson           | Christ College (Autonomous) Irinjalakuda                                     | Student [4]                    |
| 7/21/2020 13:35:36 | nandini.nadar@bmsit.in   | Dr Nandini R             | BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT                                     | ASSISTANT PROFESSOR            |
| 7/21/2020 13:42:34 | sagiveschoolinea@gmail   | SAGIVE VARGHESE          | Christ College Irinjalakuda Autonomous                                       | Associate Professor            |
| 7/21/2020 14:16:34 | hibakabeer7@gmail.com    | Hiba T K                 | Christ College Irinjalakuda                                                  | Student                        |
| 7/21/2020 14:23:05 | chatterjeesauvik8@gmail  | Sauvik Chatterjee        | Presidency University, Kolkata                                               | Student of BSc Physics Major   |
| 7/21/2020 14:28:30 | poulami.sadhukhan10@g    | Poulami Sadhukhan        | Presidency University                                                        | Student                        |
| 7/21/2020 14:43:00 | sudheersebastian@christ  | Sudheer Sebastian K      | Christ College Irinjalakuda                                                  | Associate Professor            |
| 7/21/2020 14:56:32 | shajuky@gmail.com        | Dr Shaju K Y             | Christ College (Autonomous), Irinjalakuda                                    | Associate Professor            |
| 7/21/2020 14:57:08 | iamjinsajose@gmail.com   | Jisna Jose Alookaran     | Vimala College Thrissur                                                      | Student                        |
| 7/21/2020 14:59:38 | jmaleckkal123@gmail.co   | Rev.Dr. Jolly Andrews    | Christ College (Autonomous), Irinjalakuda                                    | Principal                      |
| 7/21/2020 15:04:59 | shamnams24@gmail.com     | Shamna M S               | Christ College, Irinjalakuda                                                 | PhD Scholar                    |
| 7/21/2020 15:05:21 | shamnams24@gmail.com     | Shamna M S               | Christ College, Irinjalakuda                                                 | PhD Scholar                    |
| 7/21/2020 15:06:01 | shamnams24@gmail.com     | Shamna M S               | Christ College, Irinjalakuda                                                 | PhD Scholar                    |
| 7/21/2020 15:09:10 | laly.sunny@gmail.com     | Laly.A.S                 | Little Flower College,Guruvayur                                              | Asst.Professor                 |
| 7/21/2020 15:11:06 | anjusebastian@christcol  | Anju Sebastian           | Christ College Irinjalakuda                                                  | Research Scholar               |
| 7/21/2020 15:15:13 | nadheemcp@gmail.com      | Mohammed Nadheem C       | Sullamussalam Science College Areekode                                       | UG Student [5]                 |
| 7/21/2020 15:14:54 | prajit.chandran@maharaj  | Dr. PRAJIT CHANDRAN      | TM GOVT COLLEGE TIRUR                                                        | ASSISTANT PROFESSOR            |
| 7/21/2020 15:15:20 | xavierjm73@gmail.com     | Xavier Joseph            | Christ College Irinjalakuda                                                  | Associate professor            |
| 7/21/2020 15:17:04 | greeshmammu10.6@gmc      | Greeshma.R               | Government College Madapally                                                 | Student                        |
| 7/21/2020 15:23:12 | kalpashaju74@gmail.com   | KALPA SIVADAS            | Christ college                                                               | Assistant professor            |
| 7/21/2020 15:24:59 | merry.merin10@gmail.co   | Merin Jose V             | Christ College                                                               | Assistant Professor            |
| 7/21/2020 15:32:02 | minukm89@gmail.com       | Minu K M                 | Sree Narayana College, Natlika                                               | Assistant Professor            |
| 7/21/2020 15:32:58 | v.vineeth@christuniversi | Vineeth Valsan           | Christ (Deemed to be University)                                             | Assistant Professor            |
| 7/21/2020 15:34:17 | ramlakk0403@gmail.com    | Ramia K K                | MES KALLADI COLLEGE MANNARKKAD, PALAKKAD                                     | M.Sc student                   |
| 7/21/2020 15:34:48 | majidha2321@gmail.com    | Majidha                  | Mes kalladi college                                                          | Mannarkkad                     |
| 7/21/2020 15:43:03 | anittajibby24@gmail.com  | Anitta jibby             | Christ college irinjalakuda                                                  | Student                        |
| 7/21/2020 15:53:23 | abhijitthomas2000@gmai   | Abhijit Thomas           | Sacred heart college, Thevara                                                | Student                        |
| 7/21/2020 15:57:13 | nitheeshpraba@gmail.co   | M.NITHEESH PRABA         | CENTRAL UNIVERSITY OF KERALA                                                 | Student                        |
| 7/21/2020 16:05:54 | nehakishor22@gmail.com   | Neha kishor              | Malabar christian college                                                    | Student                        |
| 7/21/2020 16:17:21 | drbindurg@gmail.com      | Dr BINDU R G             | NSS College, Nilamel, Kollam                                                 | Assistant Professor            |
| 7/21/2020 16:24:40 | drtomcherian@gmail.com   | Dr. Tom Cherian          | Christ College, Irinjalakuda                                                 | Asst. Professor                |
| 7/21/2020 16:27:37 | mitly.thamp@gmail.com    | Mity Thambi              | Baselius college, kottayam                                                   | Assistant professor            |
| 7/21/2020 16:31:13 | litty.mathew.irimpan@sm  | Dr. Litty Mathew Irimpan | St. Mary's College Thrissur                                                  | Assistant Professor in Physics |
| 7/21/2020 16:42:21 | aswalhipv31793@gmail.c   | ASWATHI P V              | Christ College Irinjalakuda                                                  | Research Scholar               |
| 7/21/2020 16:56:05 | sheejadbpampa@gmail.c    | Dr Sheeja P              | D B Pampa College Parumala Pathanamthitta                                    | Associate Professor            |
| 7/21/2020 17:40:43 | jincythms@gmail.com      | Jincy Thomas             | CKGM GOVERNMENT COLLEGE PERAMBRA                                             | Asst professor                 |
| 7/21/2020 17:52:17 | jestinmg@gmail.com       | JESTIN M G               | KKTM Government College, Pullut                                              | Asst.Professor                 |
| 7/21/2020 17:55:23 | vishnu.mthss@gmail.com   | Vishnu Madhu             | Indian Institute of Astrophysics                                             | Junior Research Fellow         |
| 7/21/2020 18:09:07 | hrithikamerin@gmail.com  | Hrithika Merin Peter     | Christ college Autonomous Irinjalakuda                                       | Student                        |
| 7/21/2020 18:20:08 | sreebpsker@gmail.com     | SREEDEVI TP              | Christ College Irinjalakkuda                                                 | Student                        |
| 7/21/2020 18:20:16 | nithyasathian@gmail.com  | Nithya K S               | Christ college ( Autonomous) Irinjalakuda                                    | Research Scholar               |
| 7/21/2020 18:31:52 | aryakanathil@gmail.com   | ARYA K M                 | Govt.victoria college Palakkad                                               | Student                        |
| 7/21/2020 18:32:21 | lakshmika97@gmail.com    | RAJALAKSHMI K.A          | GOVERNMENT COLLEGE CHITTUR,PALAKKAD                                          | BSC STUDENT                    |
| 7/21/2020 18:34:38 | ashilaph04@gmail.com     | ASHIFA P H               | GOVERNMENT COLLEGE CHITTUR                                                   | BSC STUDENT                    |
| 7/21/2020 19:02:44 | anaghaantony022@gmail    | ANAGHA ANTONY            | CHRIST COLLEGE AUTONOMOUS IRINJALAKUDA                                       | Student                        |
| 7/21/2020 19:17:43 | anjusivadam@gmail.com    | ANJANA C                 | St Thomas College ( Autonomous ), Thrissur                                   | Student                        |
| 7/21/2020 19:23:40 | jmaleckkal123@gmail.co   | Dr Jolly Andrews         | Christ college Irinjalakuda                                                  | Assistant professor            |
| 7/21/2020 19:26:10 | dhrihyachinnu@gmail.cc   | Dhrishya V               | Madras Christian College                                                     | Student                        |
| 7/21/2020 19:27:02 | harshaharidas10@gmail.   | Harsha Haridas           | Catholicate College                                                          | Student                        |
| 7/21/2020 19:29:05 | claraliyapoly@gmail.com  | Liya Poly                | Christ College (Autonomous) Irinjalakkuda                                    | Student                        |
| 7/21/2020 19:31:10 | musfirpn@gmail.com       | Musfir P N               | Farook College                                                               | Assistant Professor            |
| 7/21/2020 19:38:19 | jobysebastian10@gmail.c  | Mr. JOBY SEBASTIAN       | St. Thomas' College (Autonomous), Thrissur, Kerala                           | Assistant Professor            |
| 7/21/2020 19:40:01 | binduc314@gmail.com      | BINDU C                  | Govt.Womens Polytechnic College,Nedupuzha,Thrissur                           | Assistant Professor            |
| 7/21/2020 19:57:09 | prakashinbad@gmail.com   | Dhanasekaran Prakash     | Central Leather Research Institute                                           | Senior research fellow         |
| 7/21/2020 19:58:38 | saisireen@gmail.com      | SAISREE S                | Indian Institute of Space Science and Technology, Trivandrum                 | Research Scholar               |
| 7/21/2020 20:04:02 | samuel00boni@gmail.cor   | Boni Samuel              | International School of Photonics, Cochin University of Science and Technolo | Research Scholar               |
| 7/21/2020 20:06:59 | biswajitdeb55@gmail.com  | Biswajit Deb             | Assam University                                                             | PhD student                    |

| Timestamp          | Email Address                    | Name:                | Institution/Organization:                   | Designation:              |  |
|--------------------|----------------------------------|----------------------|---------------------------------------------|---------------------------|--|
| 7/21/2020 20:18:19 | maryjoseph2406@gmail.com         | MARY JOSEPH          | Christ College Irinjalakuda                 | Research Scholar          |  |
| 7/21/2020 20:28:22 | guruwarier16@gmail.com           | Vishnu M Warriar     | Cochin University of Science and Technology | Student                   |  |
| 7/21/2020 21:22:57 | sangeetharamachandran1@gmail.com | Sangeetha K K        | Mercy college palakkad                      | Student                   |  |
| 7/21/2020 21:38:57 | palakulam03@gmail.com            | JOYAL JAIN PALAKULAI | St. Thomas' College (Autonomous), Thrissur  | Student                   |  |
| 7/21/2020 22:41:01 | vkshrinivastav1123@gmail.com     | Varun kumar          | Kuk                                         | Student                   |  |
| 7/21/2020 22:54:35 | anishammu2001@gmail.com          | Anisha Shaji         | Christ college irinjalakuda thrissur        | Degree student            |  |
| 7/21/2020 23:01:59 | drvjjo@gmail.com                 | Dr. V P Joseph       | Christ College Irinjalakuda                 | Associate Professor (Rtd) |  |
| 7/21/2020 23:29:24 | donpellissery2001@gmail.com      | DON P SUNNY          | Christ college irinjalakuda                 | Student                   |  |
| 7/21/2020 23:33:43 | ajith07cr7@gmail.com             | Ajith m              | Christ college irinjalakuda                 | Student                   |  |
| 7/21/2020 23:52:26 | dinut804@gmail.com               | Dinu Tony            | Bharata Mata College, Thrikkakara           | Student                   |  |
| 7/22/2020 6:48:18  | nijovarghese@gmail.com           | Dr. Nijo Varghese    | Sacred Heart College, Chalakudy             | Asst. Professor           |  |
| 7/22/2020 8:27:37  | kshemathomas1@gmail.com          | Annam Kshema Thomas  | Christ college Irinjalakuda Autonomus       | Student                   |  |
| 7/22/2020 8:29:01  | riyachackochan98@gmail.com       | RIYA CHACKOCHAN      | SACRED HEART COLLEGE THEVARA                | STUDENT                   |  |
| 7/22/2020 9:01:01  | monicasebastian26@gmail.com      | Monica M.S           | Christ college irinjalakuda                 | Student                   |  |
| 7/22/2020 10:13:19 | anusree.pg@saintgits.org         | ANUSREE P G          | SAINTGITS COLLEGE OF ENGINEERING            | ASSISTANT PROFESSOR       |  |
| 7/22/2020 10:29:00 | rekhatomas7@gmail.com            | REKHA THOMAS         | ST.TERESA'S COLLEGE ERNAKULAM               | STUDENT                   |  |
| 7/22/2020 10:53:50 | spjansanthosh@gmail.com          | Santhosh P Jose      | Vimala College, Thrissur                    | Assistant Professor       |  |
| 7/22/2020 10:57:15 | ramabadrancd@gmail.com           | Ramabadrancd C. D    | Government College Chittur                  | Assistant Professor       |  |
| 7/22/2020 11:31:09 | pandeyamit2406@gmail.com         | Amit Pandey          | CSIO                                        | SRF                       |  |
| 7/22/2020 11:56:08 | edwinthalore@gmail.com           | Edwin Jose           | Christ College Irinjalakuda                 | Assl. Prof.               |  |
| 7/22/2020 12:05:19 | anumahesh11@gmail.com            | Anu Kuruvilla        | Mercy College, Palakkad                     | Assistant Professor       |  |
| 7/22/2020 12:10:48 | hisnapi@gmail.com                | Hisna P A            | University of Calicut                       | Student                   |  |
| 7/22/2020 12:13:51 | singh.vineet2606@gmail.com       | Vineeta singh        | Department of physics and astrophysics      | Research scholar          |  |
| 7/22/2020 12:15:28 | blooms88@gmail.com               | Melda Francis        | Mercy College Palakkad                      | Assistant Professor       |  |
| 7/22/2020 12:26:33 | daniyamid277@gmail.com           | Daniya Davis         | Christ College Irinjalakuda                 | Student                   |  |

Department of Physics  
Christ College (Autonomous) Irinjalakuda



**Dr. Sr. Jessy Mathew N**

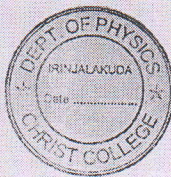
**Mercy College, Palakkad**

has attended the Online International Webinar "(Super)-Resolution  
With Far Field Optics" by Prof. Dr. Paul Urbach, TU Delft, Netherlands.

Date : 22-07-2020 (12.30 - 13.30, IST).

A handwritten signature in black ink, appearing to read "K Y Shaju".

Dr. K Y Shaju  
Vice Principal and HOD



A handwritten signature in black ink, appearing to read "Jolly Andrews".

Rev. Fr. Dr. Jolly Andrews CMI  
Principal

Department of Physics  
Christ College (Autonomous) Irinjalakuda

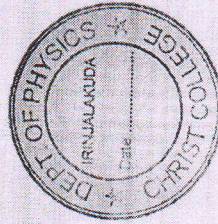


**Dhrishya V**

**Madras Christian College**

has attended the Online International Webinar "(Super)-Resolution  
With Far Field Optics" by Prof. Dr. Paul Urbach, TU Delft, Netherlands.  
Date : 22-07-2020 (12.30 - 13.30, IST).

Dr. K Y Shaju  
Vice Principal and HOD



Rev. Fr. Dr. Jolly Andrews CMI  
Principal

Department of Physics  
Christ College (Autonomous) Irinjalakuda



**RANSOM GEORGE**

**CHRIST COLLEGE IRINJALAKKUDA**

has attended the Online International Webinar "(Super)-Resolution  
With Far Field Optics" by Prof. Dr. Paul Urbach, TU Delft, Netherlands.

Date : 22-07-2020 (12.30 - 13.30, IST).

Dr. K Y Shaju  
Vice Principal and HOD



Rev. Fr. Dr. Jolly Andrews CMI  
Principal

Department of Physics  
Christ College (Autonomous) Irinjalakuda



**Dr. Keerthi. K**

**Union Christian College, Aluva**

has attended the Online International Webinar "(Super)-Resolution  
With Far Field Optics" by Prof. Dr. Paul Urbach, TU Delft, Netherlands.

Date : 22-07-2020 (12.30 - 13.30, IST).

**Dr. K Y Shaju**  
Vice Principal and HOD



**Rev. Fr. Dr. Jolly Andrews CMI**  
Principal