Dr.Sudhir Chandra Sur Institute of Technology and Sports Complex
(Formerly Known as Dr.Sudhir Chandra Sur Degree Engineering College)
540, DumDum Road, Surer Math (Near Dum Dum Jn. Station), Kolkata-700074
Phone: +91 22 25603889, 25603898, 65330375
Website: www.surtech.edu.in; Email-info@dsec.ac.in

Report on

Q∞ (Q-Infinity) Quantum 3rd Lecture Series

"Quantum Mechanics Inspired Nano Science"

Jointly Organized by

Department of Basic Science & Humanities,
Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex,
(Sur Tech),(Autonomous) JIS Group, Dum Dum
&
CSIR-Central Glass & Ceramic Research Institute (CSIR-CGCRI), Kolkata

In Association with:
Material Research Society of India, Kolkata Chapter
Society for Materials Chemistry, Kolkata Chapter
Indian Photobiology Society, JU Campus, Kolkata
Subhami Biopharma Pvt Ltd, Kolkata
Sripat Singh College, Murshidabad
People's Association for Science and Environment (PASE) , Kolkata

Title: Q∞ (Q-Infinity) Quantum 3rd Lecture Series on **"Quantum Mechanics Inspired Nano Science"**
Date: November 13, 2026

Mode: Online

No. of participant: 309

Time: 8 PM – 10 PM

Introduction:

The Department of Basic Science & Humanities (BSH), Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex (SurTech), JIS Group, Kolkata, in association with CSIR-Central Glass & Ceramic Research Institute (CSIR-CGCRI), Kolkata, jointly organized the **3rd Q∞ (Q-Infinity) Monthly Lecture Series – 2026**, under the theme **"Limitless Possibilities of Quantum Science."**

The third lecture of this monthly academic initiative was scheduled on **Friday, 13 November 2026, from 8:00 PM to 9:00 PM IST**, in online mode. The programme featured **Prof. (Dr.) Debnarayan Jana, Professor, Department of Physics, University of Calcutta, Kolkata, India**, as the eminent speaker.

The Q∞ Quantum Lecture Series has been conceptualized as a continuing academic platform to bring together eminent scientists, researchers, academicians, faculty members, students, industry professionals and quantum science enthusiasts. Through regular expert lectures and academic interactions, the initiative aims

to promote awareness, knowledge exchange and research engagement in the rapidly evolving domains of quantum science and technology.

The third lecture continued this academic initiative by providing an opportunity for participants to interact with an eminent academician from the University of Calcutta and explore the broader dimensions of contemporary scientific research.

Objectives: The 3rd Q∞ (Q-Infinity) Monthly Lecture Series was organized with the following objectives:

- To provide students, researchers and faculty members with exposure to recent developments in quantum science and technology.
- To facilitate interaction with eminent academicians and researchers from reputed universities and research institutions.
- To promote awareness and understanding of emerging concepts and applications in quantum science.
- To encourage interdisciplinary academic and research interaction among Physics, Chemistry, Materials Science, Engineering and allied disciplines.
- To motivate students and young researchers to explore new research areas and scientific innovations.
- To strengthen academic and research collaborations among participating institutions.
- To provide a platform for knowledge sharing, scientific discussions and exchange of research perspectives.
- To encourage young researchers to pursue higher studies and research careers in emerging scientific fields.
- To strengthen the academic association between SurTech, CSIR-CGCRI and the collaborating partner organizations.
- To establish Q∞ as a regular platform for scientific interaction and collaborative exploration of the limitless possibilities of quantum science.

Inaugural Ceremony:

The inaugural session commenced with a formal welcome to the invited speaker,esteemed guests, participating academicians, researchers, faculty members, students and quantum enthusiasts.

The programme marked the formal launch of **Q∞ – Quantum Lecture Series**, jointly initiated by the **Department of Basic Science & Humanities, SurTech and CSIR-CGCRI, Kolkata**, with the support and association of the collaborating academic and institutional partners.

The inaugural session highlighted the importance of developing a strong academic and research ecosystem in quantum science and technology. The organizers emphasized the need for regular interaction between established researchers and young learners so that students and researchers can understand both the fundamental concepts and emerging applications of quantum technologies.

- **President, Q∞ Quantum Lecture Series**
  Dr. Srabanti Ghosh,Principal Scientist, CSIR-CGCRI, Kolkata

- **Secretary, Q∞ Quantum Lecture Series**
  Dr. Dipankar Das, Head of the Department, BSH, SurTech

- **Joint Secretary, Q∞ Quantum Lecture Series**
  Dr. Biswajit Das, Asst. Professor, BSH, SurTech

Eminent Speakers

Sl. No.	Name	Designation	Institute / Organization
1	Prof. (Dr.) Debnarayan Jana	Professor	Department of Physics, University of Calcutta, Kolkata

Prof. (Dr.) Debnarayan Jana, Professor in the Department of Physics, University of Calcutta, Kolkata, was the eminent speaker for the 3rd Q∞ Monthly Lecture Series.

His participation provided an opportunity for students, researchers and faculty members to gain academic exposure through interaction with an experienced academician from one of the premier universities in the country.

He was a visiting fellow in CCMS (NTU, Taiwan) from 2003-04. He was elected as a Fellow of West Bengal Academy of Science and Technology (WAST), in 2015.Dr. Debnarayan Jana, a brilliant academic record holder, completed the doctoral study from Raman Research Institute in 1997 and joined the Dept. of Physics, Narendrapur RKMR college as a lecturer. In 2000, he joined the prestigious department of physics, University of Calcutta as a lecturer and subsequently promoted to Professor of Physics in 2011.

PhD Awarded: 23 students till date 6 UGC D S Kothari/National post-doctoral fellows have joined with Dr. Jana.Guest Editor in Journal of Physics:Condensed Matter (2023) (IOP). No. of Publications in Peer-reviewed Journals: 245+

His 27 years experience in physics teaching has motivated to write 15 books in Physics, two of them are published by LAP, Germany. Of late, Govt. of India has honoured him with prestigious INSA Teachers Award (2020), for his accomplishments as a distinguished teacher over the years. In the year 2022, 2023, 2024, 2025 and 2026. Dr. Jana secured a position in the list of World top 2% scientists. In 2023, he was also among the list of Asian top scientists. Most recently, one of his review articles published fron IOP Publishing journal (Reports on Progress in Physics) has been recognized as one of the top 1% most cited papers during 2020-2022.Programme Highlights

Programme Highlights

The major highlights of the 3rd Q∞ Monthly Lecture Series included:

- Organization of the third monthly lecture under the Q∞ (Q-Infinity) Quantum Lecture Series.
- An expert lecture by **Prof. (Dr.) Debnarayan Jana**, Professor, Department of Physics, University of Calcutta.
- Academic engagement with an eminent university-level academician.
- An opportunity for students, researchers, faculty members and quantum science enthusiasts to participate in an online knowledge-sharing programme.
- Promotion of scientific awareness and academic discussion in the broad domain of quantum science.
- Encouragement of interdisciplinary research perspectives and academic interaction.
- Strengthening of institutional collaboration between SurTech and CSIR-CGCRI, Kolkata.
- Active association of reputed academic and professional organizations, including MRSI Kolkata Chapter, SMC Kolkata Chapter, IPS, Sripat Singh College, Subhami Biopharma Pvt. Ltd. and PASE Kolkata.
- Continuation of the monthly lecture initiative to promote scientific curiosity, research awareness and knowledge exchange.
- Provision of e-certificates to registered participants.

Programme Outcome:
The major expected academic outcomes of the programme were:

- Enhanced awareness among students and researchers regarding contemporary developments in quantum science.
- Exposure to academic and research perspectives shared by an eminent professor from the University of Calcutta.
- Encouragement of scientific curiosity and interest in emerging research areas.
- Promotion of interdisciplinary learning and research-oriented thinking among students and young researchers.
- Strengthening of academic interaction between universities, research institutions and participating organizations.
- Encouragement of students to pursue higher education and research in emerging areas of science and technology.
- Identification of potential opportunities for future academic collaboration and research networking.
- Strengthening of the Q∞ Quantum Lecture Series as a continuing platform for scientific knowledge exchange.
- Promotion of collaborative academic initiatives among SurTech, CSIR-CGCRI and its associated partner institutions.

About Contributing Participant:

A total of 310 including 60 Assistant Professor, 22 Associate Professor, 4 Professor, 26 Ph.D scholar, 4 Scientist and 175 UG and PG students across India and abroad like CNRS, Université Paris-Saclay, Jawaharlal Nehru Centre for Advanced Scientific Research ,CSIR–Central Glass and Ceramic Research Institute, TIFR, Mumbai , IIT Indore, Indian Association for the Cultivation of Sciences, Indian Institute of Engineering Science and Technology, Jadavpur University , IIIT Kalyani , S. N. Bose National Centre for Basic Sciences ,CSIR–National Physical Laboratory, Indian Institute of Technology Jodhpur, Central University of Himachal Pradesh , BITS Pilani, Hyderabad , Pt. Ravishankar Shukla University, Raipur ,Amity University, Lucknow, Netaji Subhash University of Technology, SRM University,Sri Venkateswara College of Engineering, St. Xavier's College, Kolkata , MITS School of Engineering , M. S. Ramaiah Institute of Technology , GIFT Autonomous, Bhubaneswar , Tribhuvan University ,Chhatrapati Shahu Ji Maharaj University , Vidyasagar University , Narayana Engineering College, Nellore , Diamond Harbour Women's University ,Rajendra Mishra College , Netaji Subhas Institute of Technology, Bihta, Patna , C. Abdul Hakeem College of Engineering and Technology , Vedanta College , Techno India University , Sir Parashurambhau College, Pune , BPHE Society's Ahmednagar College , MITS School of Engineering , Bhairab Ganguly College ,Maulana Abul Kalam Azad University of Technology and all JIS sister institution attended this talk to explore future collaboration, research publications, joint projects and academic interaction with institutions and experts from India and abroad.

Acknowledgement:

The Department of Basic Science & Humanities (BSH), SurTech, expresses its sincere gratitude to **Sardar Taranjit Singh, MD, JIS Group; Sardar Simarpreet Singh, Director, JIS Group; Prof. (Dr.) Saradindu Panda, Principal, SurTech; Dr. Soumen Basu, Registrar,** SurTech, and also honourable **Director, CSIR-Central Glass & Ceramic Research Institute (CSIR-CGCRI), Kolkata**, which contributed significantly to the conceptualization and establishment of the Q∞ Quantum Lecture Series.

Special appreciation is extended to **Prof. (Dr.) Debnarayan Jana**, Professor, Department of Physics, University of Calcutta, for accepting the invitation to deliver the expert lecture and sharing his valuable academic knowledge and research perspectives with the participants

Special thanks are extended to all the collaborating organizations **Society for Materials Chemistry, Kolkata Chapter,MRSI Kolkata Chapter, Indian Photobiology Society,Jadavpur University Campus, Sripat Singh College,Murshidabad, Subhami Biopharma Pvt. Ltd.,Kolkata and People's Association for Science and Environment (PASE), Kolkata** for their support and association**.**

The organizers also acknowledge the efforts of the faculty members, research scholars, students, technical and supporting staff, and all members of the organizing team whose collective efforts contributed to the successful launch of the Q∞ Lecture Series.

Vote of Thanks:

Sincere gratitude was expressed to **Prof. (Dr.) Debnarayan Jana,** for his insightful and inspiring inaugural lecture by Dr Dipankar Das. Special appreciation was extended to **Dr. Srabanti Ghosh, Principal Scientist, CSIR-CGCRI and President of Q∞**, for her vision, guidance, and continuous support in initiating the lecture series.The organizers also acknowledged the valuable support of all **association partners**, faculty members, researchers, students, organizing team members, and participants who contributed to the success of the programme.

Conclusion:

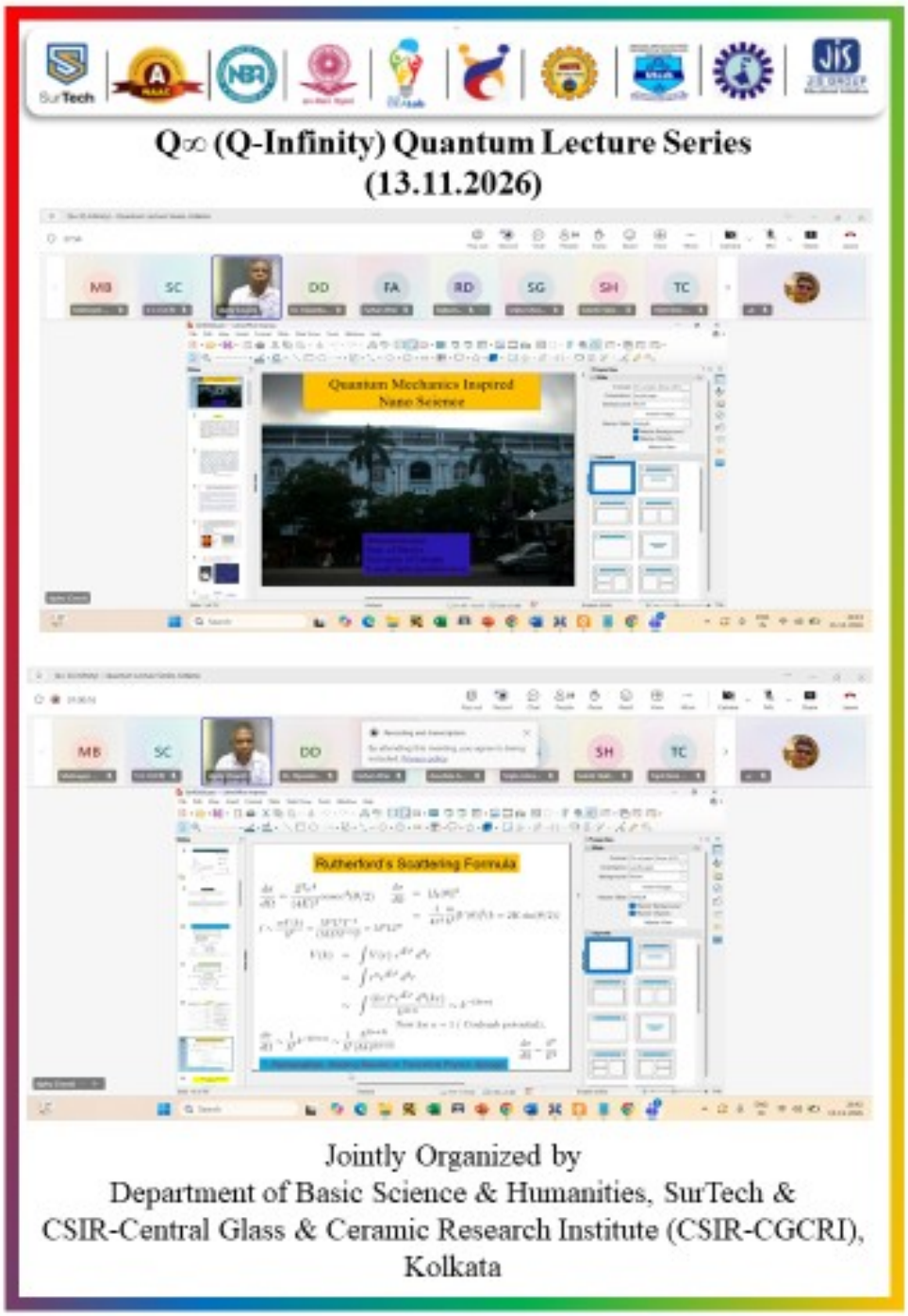
The **3rd Q∞ (Q-Infinity) Monthly Lecture Series – 2026**, held on 13 November 2026, represented another important step towards establishing a sustained academic platform for promoting awareness, interaction and research engagement in the rapidly evolving field of quantum science.

The participation of **Prof. (Dr.) Debnarayan Jana, Professor, Department of Physics, University of Calcutta**, as the eminent speaker added academic value to this continuing lecture series and provided an opportunity to connect students, researchers and academicians with an experienced academician.

The Department of Basic Science & Humanities, SurTech, in association with CSIR-CGCRI, Kolkata, and its academic partners, remains committed to continuing the Q∞ Quantum Lecture Series through regular expert lectures, academic interactions and collaborative initiatives.

The series aspires to foster scientific curiosity, interdisciplinary research, innovation and academic collaboration, thereby contributing towards the advancement of quantum science and technology.

Glimpses of the Event:


Q∞ (Q-Infinity) Quantum Lecture Series
(13.11.2026)
Quantum Mechanics Inspired Nano Science
Rutherford's Scattering Formula
Jointly Organized by
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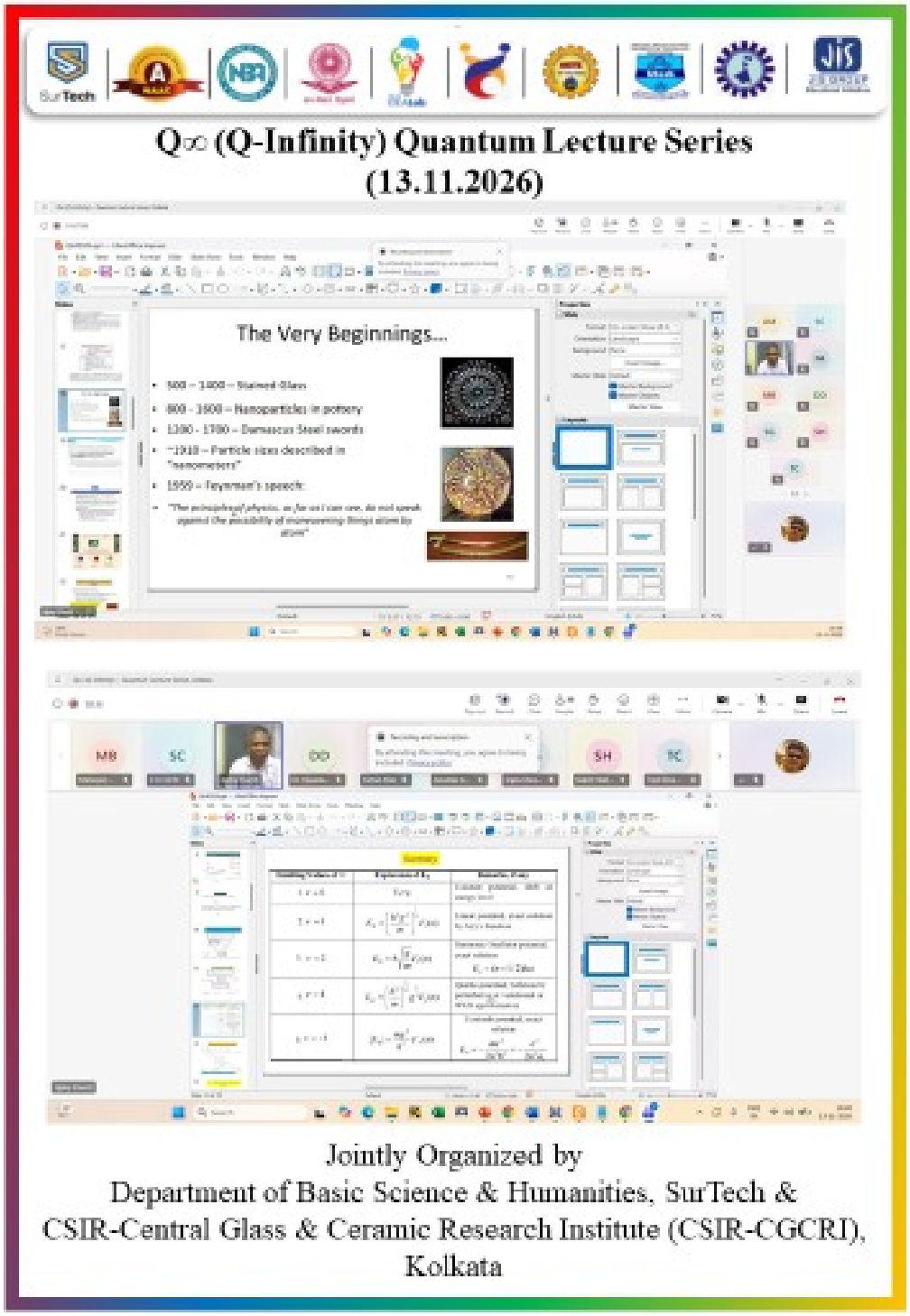
Kolkata


Q∞ (Q-Infinity) Quantum Lecture Series
(13.11.2026)
The Very Beginnings...
Jointly Organized by
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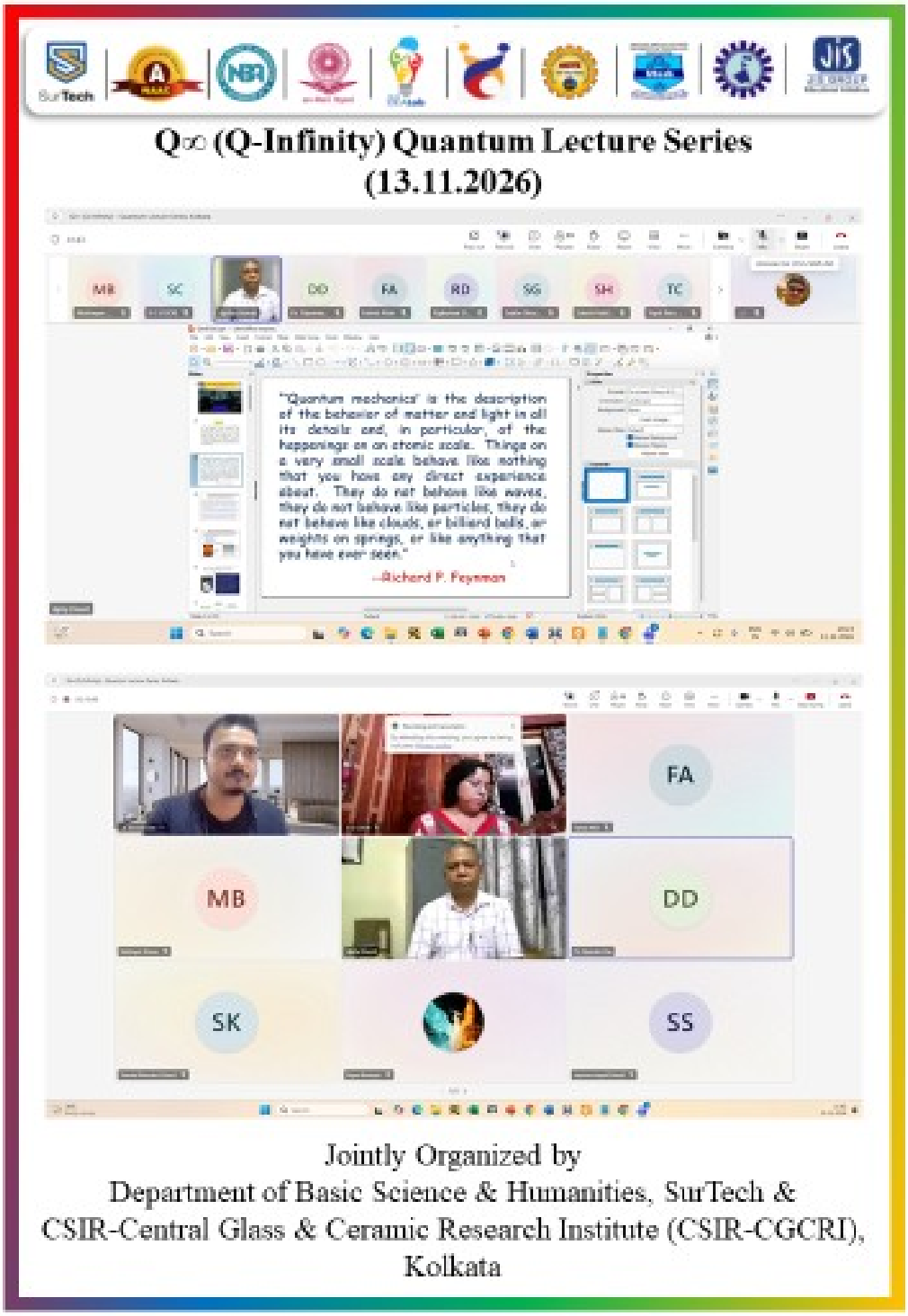
Kolkata


Q∞ (Q-Infinity) Quantum Lecture Series
(13.11.2026)
"Quantum mechanics' is the description of the behavior of matter and light in all its details and, in particular, of the happenings on an atomic scale. Things on a very small scale behave like nothing that you have any direct experience about. They do not behave like waves, they do not behave like particles, they do not behave like clouds, or billiard balls, or weights on springs, or like anything that you have ever seen."
--Richard P. Feynman
FA
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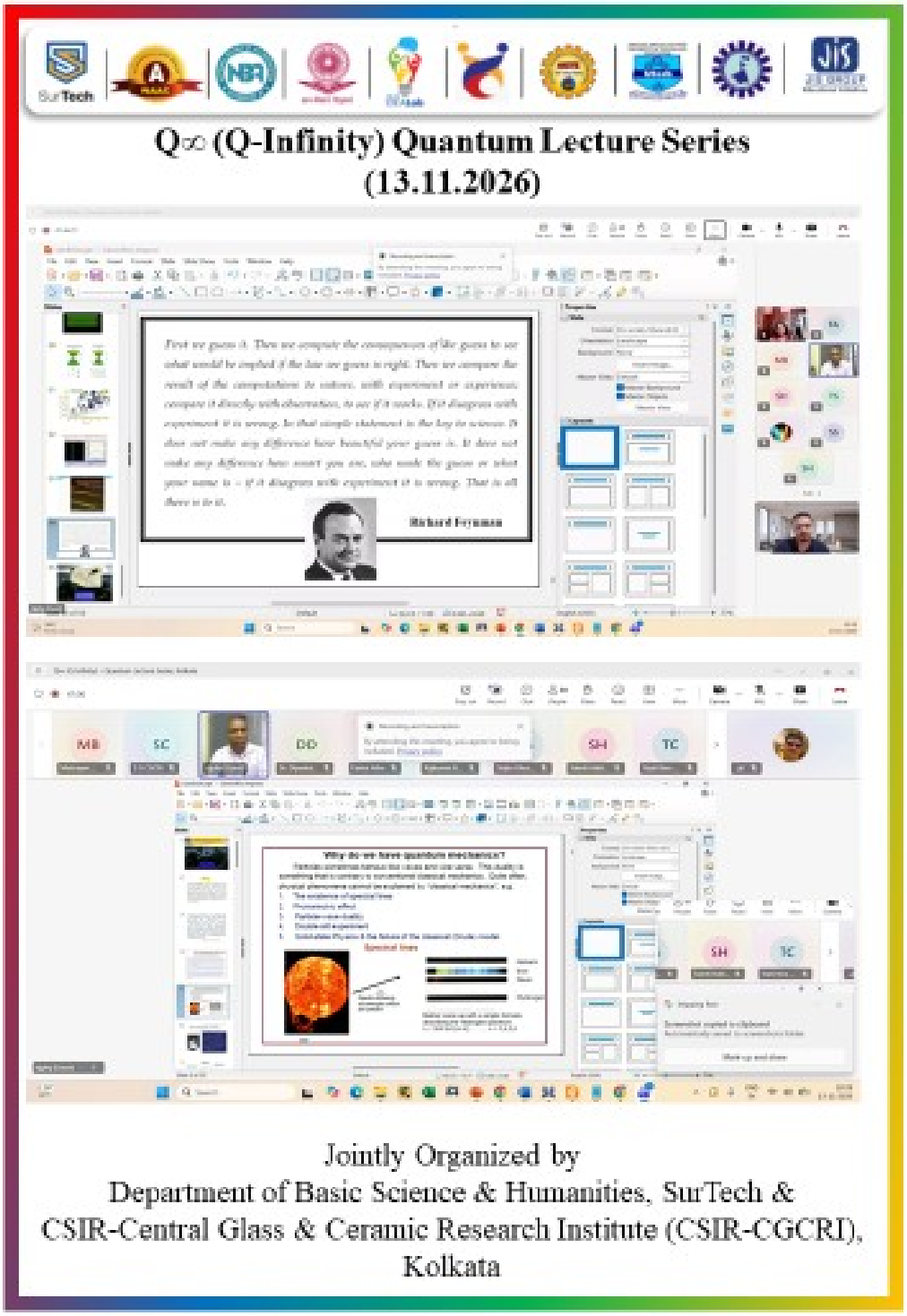
Q∞ (Q-Infinity) Quantum Lecture Series
(13.11.2026)
Richard Feynman
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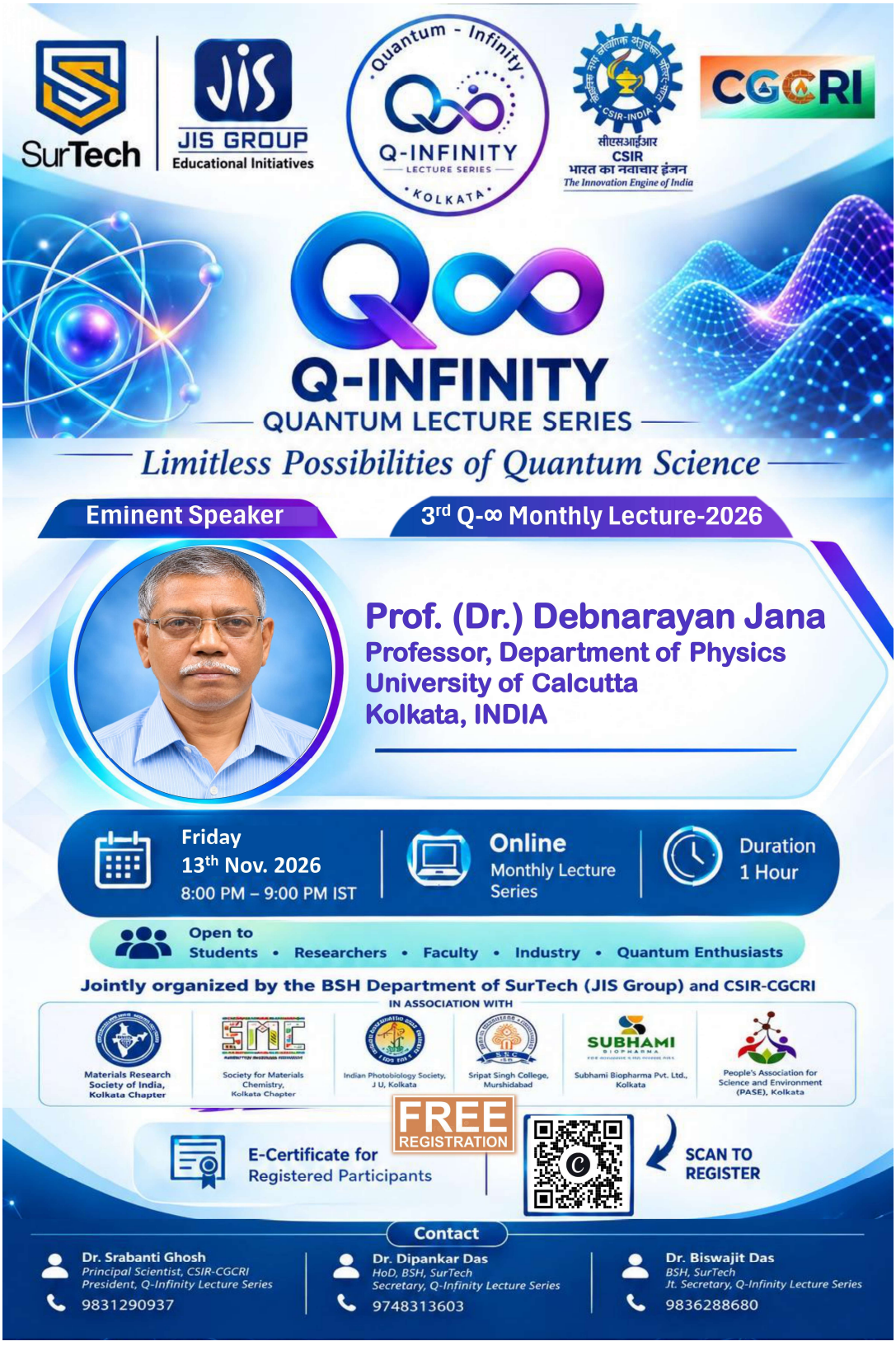
Kolkata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QUANTUM LECTURE SERIES
Limitless Possibilities of Quantum Science
Eminent Speaker
3rd Q-∞ Monthly Lecture-2026
Prof. (Dr.) Debnarayan Jana
Professor, Department of Physics
University of Calcutta
Kolkata, INDIA
Friday
13th Nov. 2026
8:00 PM – 9:00 PM IST
Online
Monthly Lecture Series
Duration
1 Hour
Open to
Students • Researchers • Faculty • Industry • Quantum Enthusiasts
Jointly organized by the BSH Department of SurTech (JIS Group) and CSIR-CGCRI
IN ASSOCIATION WITH
Materials Research Society of India, Kolkata Chapter
Society for Materials Chemistry, Kolkata Chapter
Indian Photobiology Society, J U, Kolkata
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SUBHAMI BIOPHARMA
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FREE REGISTRATION
E-Certificate for Registered Participants
SCAN TO REGISTER
Contact
Dr. Srabanti Ghosh
Principal Scientist, CSIR-CGCRI
President, Q-Infinity Lecture Series
9831290937
Dr. Dipankar Das
HoD, BSH, SurTech
Secretary, Q-Infinity Lecture Series
9748313603
Dr. Biswajit Das
BSH, SurTech
Jt. Secretary, Q-Infinity Lecture Series
9836288680