

DAE-BRNS Theme Meeting on “Laser Technology for Nuclear Applications, LTNA-2025”

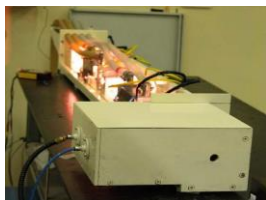
June 27 - 28th, 2025

Convention Centre, RRCAT

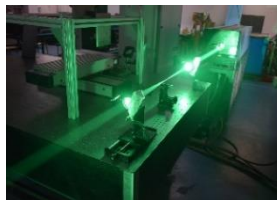
Sponsored by Board of Research in Nuclear Sciences (BRNS)



Remote Laser Cutting



High Power Nd:YAG Laser



High Power CVL



DPSS Green Laser



Metrology System for PFBR

About Theme Meeting:

RRCAT, Indore is organizing a theme meeting on “Laser Technology for Nuclear Applications, LTNA-2025” sponsored by BRNS. The objective of this theme meeting is to showcase the existing laser technologies, recent advancements and to gear up for the future requirements, challenges & applications of DAE units. This theme meeting will showcase different types of lasers and laser based advanced technologies developed at RRCAT which are being used in nuclear program. RRCAT in collaboration with DAE units has developed and deployed different types of laser systems, power supplies, electronics, controls and instrumentation, etc. These systems are being enormously used for the nuclear program. Some of the deployed laser technologies include assistance in remote structural refurbishment of nuclear reactors, fabrication of critical nuclear components & metrology for fuel quality control, fiber Bragg grating sensors for temperature monitoring in radiation environment, power systems control and instrumentation in nuclear medicine etc.

Topics:

- Laser technology development
- Applications of lasers in nuclear field
- Instrumentation, control, power electronics for lasers
- Inspection, metrology for quality control of nuclear fuel, fuel accessories, components

Who Should Attend: Officials from DAE units, professionals working in these fields.

Registration: The participation for this theme meeting is through nomination only. There is **no registration fee** for the participant and they have to manage their own travel and stay at RRCAT. The nominations has to be submitted to the Secretary with copy to Convener through email.

About RRCAT: RRCAT is a unit of Department of Atomic Energy, Government of India, engaged in R&D in the front line research areas of Particle Accelerators, Lasers and related technologies.

Advisory Committee:

Dani Umesh	: Former CE, NRB, BARC
Dixit S. K.	: Director, LG, RRCAT
Kapoor Komal	: Chairman and CE, NFC
Malshe U. D.	: Director, RRCAT
Mascarenhas M. L.	: Director, BTDG, BARC
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Pimparker H. R.	: CE, NRB, BARC
Puntambekar T. A.	: Additional Director, RRCAT & Director, EAG
Ray Alok	: Former RRF, BARC

Organizing Committee:

Dixit S. K., RRCAT	: Chairman
Deshpande P. P., RRCAT	: Co-Chairman
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Karthik V., IGCAR	: Member
Mukhopadhyay P. K., RRCAT	: Member
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Upadhyaya B. N., RRCAT	: Member
Pathak Ayukt, RRCAT	: Treasurer
Saxena Piyush, RRCAT	: Convener
Agrawal P. K., RRCAT	: Secretary

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Important Dates:

Last date for nominations	: June 02, 2025
Confirmation of nominations	: June 03, 2025
Last date for abstract submission	: June 06, 2025
Theme meeting	: June 27 - 28, 2025