

## International Centre for Theoretical Physics (ICTP) Prize

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### Why in news?

Recently, the ICTP Prize for the year 2025 was awarded.

- It is awarded **annually** to recognise outstanding and original **contributions in physics** by young scientists from, and working **in, developing countries**.
- **Founded in** - ICTP was founded in 1964 by Pakistani physicist & Nobel laureate **Abdus Salam** and Italian physicist **Paolo Budinich**.
- **Established in** - ICTP Prize was established in 1982 by the ICTP Scientific Council.
- **Citation** - The ICTP Prize includes a sculpture, a certificate and a cash award.

### Winner for 2025

Winner	Key Contributions
Titas Chanda, Assistant Professor, IIT-Madras	<ul style="list-style-type: none"> <li>• Advanced quantum information science and <b><u>quantum many-body physics</u></b></li> <li>• Worked on quantum correlations and open quantum systems</li> <li>• Applications: Quantum batteries, communication protocols, and resource theories</li> <li>• Developed numerical tools across quantum optics, cold atoms, and strongly correlated systems</li> </ul>
Sthitadhi Roy, Assistant Professor, Tata institute of fundamental research, Bengaluru	<ul style="list-style-type: none"> <li>• Specialised in <b><u>non-equilibrium dynamics</u></b> of quantum many-body systems</li> <li>• Researched measurement-induced phenomena, many-body localisation, and emergent phases of quantum matter</li> <li>• Explored hybrid quantum circuits and protocols using measurements to prepare exotic topological and dynamical phases</li> </ul>

- **Dedicated to** - This year's prize is dedicated to **Italian physicist Giancarlo Ghirardi**, known for foundational work in quantum mechanics and entanglement-based methods.
- **Past winners from India** - Ashoke Sen, Deepak Dhar, Spenta Wadia, Rajesh Gopakumar, Mohit Randeria, Shiraz Minwalla, and G. Baskaran.
- **Significance** - The ICTP has played a pivotal role over decades in shaping and nurturing India's physics community on the global stage.

### References

1. [The Hindu | ICTP Prize, 2025](#)
2. [ICTP | ICTP Prize, 2025](#)

