

Discussion Meeting on Quantum Mechanics

January 19, 2017

Convenor: Prof. Archan S. Majumdar

PI, DST Project on “Fundamental aspects of Quantum Theory & quantum Information”

PROGRAM

| | Speaker | Time | Title |
|---|--|----------------|--|
| <p style="text-align: center;">Session Chair: <i>Prof. Dipankar Home</i></p> | John Corbett <i>(Institute Colloquium)</i> | 10.00 – 10.45 | Is standard quantum mechanics enough ? |
| | C. Jebaratnam | 10.45 – 11.15 | Superlocality as an operational definition of nonclassicality going beyond nonlocality |
| | <i>Tea/Coffee</i> | 11.15 -- 11.45 | |
| | Nirman Ganguly | 11.45 – 12.15 | Violation of Bell-CHSH inequality under global unitary operations |
| | Shiladitya Mal | 12.15 – 12.35 | Sharing of nonlocality of a single member of an entangled pair is not possible by more than two unbiased observers |
| | <i>Lunch</i> | 12.35 – 14.00 | |
| | <p style="text-align: center;">Session Chair: <i>Prof. John Corbett</i></p> | Debarshi Das | 14.00 – 14.20 |
| Shounak Datta | | 14.20 – 14.40 | Preservation of lower bound of quantum secret key rate in the presence of decoherence |
| Som Kanjilal | | 14.40 – 15.00 | Pointer state correlation in weak measurement |
| <i>Tea/Coffee</i> | | 15.00 – 15.30 | |
| Suchetata Goswami | | 15.30 – 15.50 | Generation of quantum correlations using cloning operations |
| Souradeep Sasmal | | 15.50 – 16.10 | A proposed steering criterion using generalized uncertainty relation |