

Indo Japan Joint Workshop on Quantum Computation & Information

A. Schedule

| | 1000-1045 | 1045-1130 | 1130-1215 | 1215-1300 | 1300-1430 | 1430-1515 | 1515-1600 | 1600-1645 | 1645-1730 |
|------------------|---|-----------|-----------|-----------|----------------|--|-----------|-----------|-----------|
| Tutorial | | | | | | | | | |
| 02/01/2020 | Postulates of Quantum Mechanics | | | | Lunch | Quantum Computation vs Classical Computation | | | |
| 03/01/2020 | Quantum Teleportation & Superdense Coding | | | | | Quantum Algorithms - I | | | |
| 04/01/2020 | Quantum Algorithms - II | | | | | Quantum Algorithms - III | | | |
| 05/01/2020 | Interacting Session - I | | | | | Interacting Session - II | | | |
| Workshop | | | | | | | | | |
| 06/01/2020 | QTRNG | QTC | QKD | | Lunch | IBM-Q | TQC | | |
| 07/01/2020 | ASQI | | | QML | | QTC | | | |
| 08/01/2020 | DQA | | QH | | | Students' Paper Presentation | | | |
| | Students' Paper Presentation | | | Lunch | City Excursion | | | | |
| Excursion | | | | | | | | | |
| 09/01/2020 | Sunderban Excursion | | | | | | | | |

B. Tentative List of Speakers

| Topic | Speaker |
|---|--|
| QTRNG (Quantum True Random Number Generator) | Goutam Paul(ISI-KOL) |
| QTC (Quantum Techniques in Cryptanalysis of Symmetric Key Ciphers) | Subhomay Maitra(ISI-KOL) Sugata Gangopadhyay(IIT-R) Hyang-Sook Lee(Inha, Korea) |
| QH (State of Quantum Hardware) | Guruprasad Kar(ISI-KOL) Hirokwa Masao(Hiroshima University) |
| PQC (Post Quantum Cryptography) | Abhik Mukherjee(IIEST) Santanu Sarkar(IIT-M) Takagi Tsuyoshi(University of Tokyo) Takashima Katsuyuki (Mitsubishi Electric Co.) |
| QKD (Quantum Key Distribution) | Arpita Maitra(UoH) |
| ASQI (Algebraic Structure in Quantum Information) | Abhijit Das(IIT-KGP) Munemasa Akihiko (Tohoku University) |
| DQA (Design of Quantum Algorithms) | Debajyoti Bera(IIIT-D) Ozeki Masayoshi (Tohoku University) |
| QML (Quantum Machine Learning) | Sourav Chakraborty(ISI-KOL) |
| IBM-Q (Programming with IBM-Q) | Prasanta K. Panigrahi(IISER-KOL) |
| TQC (Topological Quantum Computation) | Kawahigashi Yasuyuki (University of Tokyo) Kotani Motoko(Tohoku University) |