## 42nd International Conference on Quantum Probability, and Infinite Dimensional Analysis (QP-42)

### QP-42 Schedule(Updated Jan. 13, 2022)

### Forenoon sessions

| Indian Standard Time :GMT+5.30hrs | Monday 17 Jan 2022 | Tuesday 18 Jan 2022 | Wednesday 19 Jan 2022 | Thursday 20 Jan 2022 |
|---|---|---|---|---|
| Chairman: | Session –I K B Sinha | Session-III Un Cig Ji | Session-V N. Watanabe | Session-VII L. Accardi |
| 9.35-10.15 | Opening: L. Accardi(10.00-10.15) *A Twitter style introduction to Quantum Probability through the QP conferences.* | AmbarSengupta *The Large-N Limit of Laplacians and Polynomials on Spheres.* | C. Mora *Numerical simulation of open quantum systems.* | R. Quezada *Annihilation moments of quantum Gaussian states.* |
| 10.20-11.00 | N. Watanabe *On Transmitted Complexity for Modified Compound States.* | A. Stan *A study of random variables in terms of the number operator.* | J. Fullwood *On a Quantum Entropic Bayes' Rule* | Un Cig Ji *Quantum Extension of Transformations on White Noise Functionals.* |
| 11.05-11.45 | S Kozyrev *Landau-Zener formula and non-secular transitions.* | A R Usha Devi *Sandwiched relative α-entropy of two n-mode gaussian states* | D. Goswami *Quantum Galois Group of Subfactors.* | F. Mukhamedov *Quantum Markov states on Cayley trees.* |
| 11.50-12.20 | Manish Kumar *C\*-extreme maps and nests.* | Vijaya Kumar U. *The joint spectrum for a commuting pair of isometries.* | D. Dikko *On existence of solution and a selection results for a class of Quantum Stochastic Differential Inclusions (QSDI)* | E. A. Oluwafemi *Strongly continuous semigroup on decoherence-free subalgebra of quantum Markov semigroup.* |
| 12.20-14.20 | Lunch Break | | | |

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| Chairman: | Session –II U. Franz | Session-IV F. Fagnola | Session-V D. Beltita | Session-VIII M. Bozejko |
| 14.20-15.00 | F. Fagnola *The Decoherence-free Subalgebra of Gaussian Quantum Markov Semigroup.* | D. Beltita *Transformation groupoids in W\*-algebras.* | U. Franz *On Gaussian Lévy processes.* | W. Ejsmont *A cyclic Fock space of type B.* |
| 15.05-15.45 | M. Gerhold *Towards a classification of multi-faced independences.* | R. Hillier *Control of quantum noise by dynamical decoupling and the role of dilations.* | D. Markiewicz *$E_0$ -semigroups and boundary weight maps, the infinite dimensional case.* | V. Umanita *Covariant Quantum Markov Semigroups and their decoherence-free subalgebras* |
| 15.50-16.30 | V. Crismale *Symmetric states on quasi-local algebras and product states on infinite $Z_2$graded tensor products of C\*-algebras.* | L. Accardi *Fermions from classical probability* | M. Bozejko *Quasi-multiplicative positive definite functions on Coxeter(Weyl) groups with some applications to generalized CCR relations of type B and operator-valued Khintchine inequality on all Coxeter groups.* | K B Sinha *Sufficient Statistic and Rao-Blackwell Theorem in Quantum Probability.* |
| 16.35-17.15 | N. E. Özcan *Spectral conditions for uniform P-ergodicities of Markov operators.* | S. Filppov *Markovian embedding for non-Markovian quantum collision models with correlated environment.* | J. Wysoczanski *Joint Boolean and monotone numerical and spectral radii for d-tuples of operators.* | M. Saburov *Stability, Mean Ergodicity, and Historic Behavior of Nonlinear Markov Operators.* |
| 17.20-17.50 | A. Parzygnat *Conditional expectations and Bayes' theorem* | F. Girotti *On a generalized Central Limit Theorem and Large Deviations for Homogeneous Open Quantum Walks.* | P. Chakraborty *Nice error basis and study of quantum maps.* | R. Devendra *Mapping cone of k-entanglement breaking maps.* |