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**On topological properties of solution sets of non Lipschitzian quantum stochastic differential inclusions**

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**Abstract**

In this paper, we establish results on continuous mappings of the space of the matrix elements of an arbitrary nonempty set of pseudo solutions of non Lipschitz quantum Stochastic differential inclusion (QSDI) into the space of the matrix elements of its solutions. we show that under the non Lipschitz condition, the space of the matrix elements of solutions is still an absolute retract, contractible, locally and integrally connected in an arbitrary dimension. The results here generalize existing results in the literature.

**Keywords**

Non classical ODINon-Lipschitz functionTopological propertiesMatrix elements

**Mathematics Subject Classification**

60H1060H2065L0581S25

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