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Qualitative approach for the study of Impulsive delay dynamical systems

The qualitative study of Impulsive delay dynamical systems is of great importance as it represents many real life problems in physics, engineering, dynamical systems, control systems etc. But qualitative study of such systems is very difficult due to the dependence on previous data and sudden changes at impulsive moments. An alternate approach for the delay differential systems with impulses at fixed moments is presented. The result shows that the present method is more efficient and accurate as compared to the existing in literature. The application of this method is illustrated with the help of an example.