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Complex dynamical invariants for a $\mathcal{PT}\text{-}$ symmetric Hamiltonian system in higher dimensions

S.B. Bhardwaj, Ram Mehar Singh, Kushal Sharma

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Highlights

- Classical integrability of the PT-symmetric system is discussed.
- Under the elegance of the ECPS Approach, complex invariants are constructed by the rationalisation method.
- The invariants so obtained play an important role in the study of the complex trajectories.

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