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Quantum interaction of  $SU(1,1)$  Lie group with entangled a two 2-level atoms

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### Highlights

- The interaction between  $su(1,1)$  Lie group and the two two-level atom is considered.
- The general solution in non-resonance case is obtained.
- The entanglement between the two subsystems is discussed.
- Finding the relation between the Negativity and the atomic population.

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