

# Dynamic Equations in Quantum Mechanics: A New Fascinating Research Direction

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We present some examples for oscillation behavior in Schrödinger difference equations. The oscillation is investigated in context of the spectral properties of the operators under consideration.

## References and Literature for Further Reading

- [1] C. Berg, A. Ruffing, Generalized  $q$ -Hermite Polynomials, *Communications in Mathematical Physics* **223** (2001) 1, 29-46.
- [2] A. Ruffing, Habilitationsschrift, TU München (2006).