

## Zitterbewegung in monolayer Silicene

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### Abstract

We have studied the current oscillations due to ZB in Silicene in a magnetic field by considering wave packets with a Gaussian population of both positive and negative energy levels. The ZB time is compared with other periodicities namely the classical period  $T_{Cl}$  and the revival times  $T_R$ . As in previous studies [1,2,3,4] we find  $T_{ZB} < T_{Cl} < T_R$ . A comparison of these phenomena with  $MoS_2$  and grapheme has been analyzed.

### References

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