



## Sandesh Kalantre

Ph.D. Student in Physics, admitted Summer 2022

### Bio

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#### EDUCATION AND CERTIFICATIONS

- B.Tech, IIT Bombay , Engineering Physics with Honors and minor in Computer Science (2018)

### Publications

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#### PUBLICATIONS

- **Toward Robust Autotuning of Noisy Quantum dot Devices** *PHYSICAL REVIEW APPLIED*  
Ziegler, J., McJunkin, T., Joseph, E. S., Kalantre, S. S., Harpt, B., Savage, D. E., Lagally, M. G., Eriksson, M. A., Taylor, J. M., Zwolak, J. P.  
2022; 17 (2)
- **Josephson detection of time-reversal symmetry broken superconductivity in SnTe nanowires** *NPJ QUANTUM MATERIALS*  
Trimble, C. J., Wei, M. T., Yuan, N. Q., Kalantre, S. S., Liu, P., Han, H., Han, M., Zhu, Y., Cha, J. J., Fu, L., Williams, J. R.  
2021; 6 (1)
- **Ray-Based Framework for State Identification in Quantum Dot Devices** *PRX QUANTUM*  
Zwolak, J. P., McJunkin, T., Kalantre, S. S., Neyens, S. F., MacQuarrie, E. R., Eriksson, M. A., Taylor, J. M.  
2021; 2 (2)
- **Anomalous phase dynamics of driven graphene Josephson junctions** *PHYSICAL REVIEW RESEARCH*  
Kalantre, S. S., Yu, F., Wei, M. T., Watanabe, K., Taniguchi, T., Hernandez-Rivera, M., Amet, F., Williams, J. R.  
2020; 2 (2)
- **Autotuning of Double-Dot Devices In Situ with Machine Learning** *PHYSICAL REVIEW APPLIED*  
Zwolak, J. P., McJunkin, T., Kalantre, S. S., Dodson, J. P., MacQuarrie, E. R., Savage, D. E., Lagally, M. G., Coppersmith, S. N., Eriksson, M. A., Taylor, J. M.  
2020; 13 (3)
- **Supercurrent interference in semiconductor nanowire Josephson junctions** *PHYSICAL REVIEW B*  
Sriram, P., Kalantre, S. S., Gharavi, K., Baugh, J., Muralidharan, B.  
2019; 100 (15)
- **Machine learning techniques for state recognition and auto-tuning in quantum dots** *NPJ QUANTUM INFORMATION*  
Kalantre, S. S., Zwolak, J. P., Ragole, S., Wu, X., Zimmerman, N. M., Stewart, M. D., Taylor, J. M.  
2019; 5