Stanford

# Sandesh Kalantre

Ph.D. Student in Physics, admitted Summer 2022

## Bio

### EDUCATION AND CERTIFICATIONS

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

## Publications

### PUBLICATIONS

- **Torsional force microscopy of van der Waals moirés and atomic lattices.** *Proceedings of the National Academy of Sciences of the United States of America*
  Pendharkar, M., Tran, S. J., Zaborski, G., Finney, J., Sharpe, A. L., Kamat, R. V., Kalantre, S. S., Hocking, M., Bittner, N. J., Watanabe, K., Taniguchi, T., Pittenger, B., Newcomb, et al
  2024; 121 (10): e2314083121

- **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