

Robert Norden Lasenby

Phys Sci Res Assoc, Physics

Bio

ACADEMIC APPOINTMENTS

- Phys Sci Res Assoc, Physics

Publications

PUBLICATIONS

- **New Constraints on Dark Photon Dark Matter with Superconducting Nanowire Detectors in an Optical Haloscope.** *Physical review letters*
Chiles, J., Charaev, I., Lasenby, R., Baryakhtar, M., Huang, J., Roshko, A., Burton, G., Colangelo, M., Van Tilburg, K., Arvanitaki, A., Nam, S. W., Berggren, K. K.
2022; 128 (23): 231802
- **Dark matter-electron scattering in materials: Sum rules and heterostructures** *PHYSICAL REVIEW D*
Lasenby, R., Prabhu, A.
2022; 105 (9)
- **Dark matter scattering in astrophysical media: collective effects** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
DeRocco, W., Galanis, M., Lasenby, R.
2022: 1-59
- **Dark photons in the solar basin** *PHYSICAL REVIEW D*
Lasenby, R., Tilburg, K.
2021; 104 (2)
- **Parametrics of electromagnetic searches for axion dark matter** *PHYSICAL REVIEW D*
Lasenby, R.
2021; 103 (7)
- **Black hole superradiance of self-interacting scalar fields** *PHYSICAL REVIEW D*
Baryakhtar, M., Galanis, M., Lasenby, R., Simon, O.
2021; 103 (9)
- **Long range dark matter self-interactions and plasma instabilities** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
Lasenby, R.
2020
- **Microwave cavity searches for low-frequency axion dark matter** *PHYSICAL REVIEW D*
Lasenby, R.
2020; 102 (1)
- **Light vectors coupled to bosonic currents** *PHYSICAL REVIEW D*
Dror, J. A., Lasenby, R., Pospelov, M.
2019; 99 (5)
- **Black hole mergers and the QCD axion at Advanced LIGO** *PHYSICAL REVIEW D*
Arvanitaki, A., Baryakhtar, M., Dimopoulos, S., Dubovsky, S., Lasenby, R.
2017; 95 (4)

- **Black hole superradiance signatures of ultralight vectors** *Physical Review D*
Baryakhtar, M., Lasenby, R., Teo, M.
2017
- **Twin Higgs WIMP dark matter** *PHYSICAL REVIEW D*
Garcia, I., Lasenby, R., March-Russell, J.
2015; 92 (5)
- **Twin Higgs Asymmetric Dark Matter** *PHYSICAL REVIEW LETTERS*
Garcia, I., Lasenby, R., March-Russell, J.
2015; 115 (12): 121801
- **Signatures of large composite Dark Matter states** *JOURNAL OF HIGH ENERGY PHYSICS*
Hardy, E., Lasenby, R., March-Russell, J., West, S. M.
2015
- **Big Bang synthesis of nuclear dark matter** *JOURNAL OF HIGH ENERGY PHYSICS*
Hardy, E., Lasenby, R., March-Russell, J., West, S. M.
2015