

Directed Energy and Related References

<http://www.deepspace.ucsb.edu/projects/directed-energy-planetary-defense>

<http://www.deepspace.ucsb.edu/projects/directed-energy-interstellar-precursors>

<http://www.deepspace.ucsb.edu/projects/implications-of-directed-energy-for-seti>

Directed Energy for Relativistic Flight and Interstellar Travel related papers:

Journal of the British Interplanetary Society (JBIS submitted Jan 2014) – from ICARUS 2013:

Lubin, P., Hughes, G.B., Bible, J. and Johansson, I. “Directed Energy for Planetary Defense and Exploration: Applications to Relativistic Propulsion and Interstellar Communications,” *Journal of the British Interplanetary Society*, vol. 68, no. 5/6, pp. 172-182 (May 2015).

Journal of the British Interplanetary Society (JBIS submitted April 2015):

Lubin, P. “The Roadmap to Interstellar Flight”, *Journal of the British Interplanetary Society – JBIS*, Vol. 69, pp.40-72, 20, Feb 2016

<http://arxiv.org/abs/1604.01356>

SPIE Proceedings – Photonic Instrumentation Feb 2016:

Hughes, G.B., Macasaet, V.P., Griswold, J., Sison, C.A., Lubin, P., Meinhold, P., Suen, J., Brashears, T., Zhang, Q. and Madajian, J. “A fast, high-precision six-degree-of-freedom relative position sensor,” *Photonic Instrumentation Engineering III*, edited by Yakov G. Soskind and Craig Olson, Proc. Of SPIE Vol. 9754, pp. 975403-975403 (Feb, 2016).

SPIE Proceedings – Nanophotonics August 2015:

Brashears, T., Lubin, P., Hughes, G.B., McDonough, K., Arias, S., Lang, A., Motta, C., Meinhold, P., Batliner, P., Griswold, J., Zhang, Q., Alnawakhtha, Y., Prater, K., Madajian, J., Sturman, O., Gergieva, J., Gilkes, A., and Silverstein, B. “Directed Energy Interstellar Propulsion of WaferSats,” *Nanophotonics and Macrophotonics for Space Environments IX*, edited by Edward W. Taylor, David A. Cardimona, Proc. of SPIE Vol. 9616 (Aug, 2015).

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Bible, J., Bublitz, J., Johansson, I., Hughes, G.B., and Lubin, P. “Relativistic Propulsion Using Directed Energy,” *Nanophotonics and Macrophotonics for Space Environments VII*, edited by Edward W. Taylor, David A. Cardimona, Proc. of SPIE Vol. 8876, pp. 887605 (2013).

Full list of our DE papers:

Optical Engineering:

Lubin, P., Hughes, G.B., Bible, J., Bublitz, J., Arriola, J., Motta, C., Suen, J., Johansson, I., Riley, J., Sarvian, N., Clayton-Warwick, D., Wu, J., Milich, A., Oleson, M., Pryor, M., Krogen, P., Kangas, M., and O'Neill, H. "Toward directed energy planetary defense," *Optical Engineering*, Vol. 53, No. 2, pp 025103-1 to 025103-18 (Feb 2014), doi: 10.1117/1.OE.53.2.025103.

Riley, J., Lubin, P., Hughes, G.B., O'Neill, H., Meinhold, P., Suen, J., Bible, J., Johansson, I., Griswold, J. and Cook, B. "Directed energy active illumination for near-Earth object detection," In Review, Apr 2016, *Optical Engineering*.

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Lubin, P., Hughes, G.B., Bible, J. and Johansson, I. "Directed Energy for Planetary Defense and Exploration: Applications to Relativistic Propulsion and Interstellar Communications," *Journal of the British Interplanetary Society*, vol. 68, no. 5/6, pp. 172-182 (May/June 2015).

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<http://arxiv.org/abs/1604.01356>

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13th Hypervelocity Impact Symposium

Zhang, Q., Walsh, K.J., Melis, C., Hughes, G.B. and Lubin, P., "Orbital Simulations for Directed Energy Deflection of Near-Earth Asteroids", in: Schonberg, W.P., Ed., Proceedings of the 2015 Hypervelocity Impact Symposium (HVIS 2015), *Procedia Engineering*, Vol. 103:671-678 (2015)

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