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[387] Liu, T. Z., S. Lu, V. Angelopoulos, H. Hietala, and L. B. Wilson III (2018), Fermi Acceleration of Electrons inside Foreshock Transient Cores (invited), *Fundamental Physical Processes in Solar-Terrestrial Research and Their Relevance to Planetary Physics*, Jan. 7–13, 2018, Kona, Hawaii.

[388] Wilson III, L. B., A. Koval, A. Szabo, M. L. Stevens, J. C. Kasper, C. A. Cattell, and V. V. Krasnoselskikh (2018), The structure of low Mach number, low beta, quasi-perpendicular shocks (invited), *Fundamental Physical Processes in Solar-Terrestrial Research and Their Relevance to Planetary Physics*, Jan. 7–13, 2018, Kona, Hawaii.

[389] Wilson III, L. B. (2018), The Structure of Low Mach Number, Low Beta, Quasi-perpendicular Collisionless Shocks (invited), *LANL Plasma Physics Seminar*, Seminar for the Center of Space and Earth Science in Los Alamos National Laboratory, Feb. 20, 2018.

[390] Wilson III, L. B. (2018), The Physics of Collisionless Shock Waves (invited), *Swarthmore College Physics Colloquium*, Colloquium for the Department of Physics at Swarthmore College, Apr. 13, 2018.

[391] Turner, D. L., L. B. Wilson III, S. J. Schwartz, T. Z. Liu, A. Osmane, J. F. Fennell, J. B. Blake, T. Leonard, A. N. Jaynes, I. J. Cohen, B. Mauk, R. J. Strangeway, J. Broll, S. A. Fuselier, and J. L. Burch (2018), Evidence of autogenous first-order Fermi acceleration of energetic ions upstream of Earth's bow shock (solicited), in *EGU General Assembly Conference Abstracts*, *EGU General Assembly Conference Abstracts*, vol. 20, p. 2857, April 8–13, 2018, Vienna, Austria.

[392] Wilson III, L. B., A. Koval, A. Szabo, M. L. Stevens, J. C. Kasper, C. A. Cattell, and V. V. Krasnoselskikh (2018), The Structure of Low Mach Number, Low Beta, Quasi-perpendicular Collisionless Shocks (invited), *AOGS-AGU (WPGM) Joint Assembly*, pp. ST06–A002, June 3–8, 2018, Honolulu, Hawaii.

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[394] Wilson III, L. B. (2019), Electron energy partition across interplanetary shocks near 1 AU (invited), Research Seminar, Apr. 15, 2019, Princeton Plasma Physics Laboratory, Princeton University.

[395] Wilson III, L. B. (2019), Electron energy partition across interplanetary shocks near 1 AU (invited), *The Plasma Physics of the Magnetosphere*, on Jun. 2–7, 2019, Pollenzo, Italy.

[396] Wilson III, L. B. (2019), Electron energy partition across interplanetary shocks near 1 AU (invited), *Ion Composition in the Sun-Earth System (ICSES): Measurements/Implications/Theory*, on Jul. 28 to Aug. 3, 2019, Durango, CO.

[397] Wilson III, L. B. (2019), Nonthermal electron velocity distributions at interplanetary shocks near 1 AU (invited), *10th Korean Astrophysics Workshop (KAW10): Astrophysics of High-Beta Plasma in the ICM*, on Jul. 1–4, 2019, Busan, South Korea.

[398] Bessho, N., L.-J. Chen, S. Wang, L. B. Wilson III, and M. Hesse (2019), Kinetic Physics of Magnetic Reconnection in Turbulence in the Earth's Bow Shock (invited), *AOGS-AGU (WPGM) Joint Assembly*, pp. ST09–A007, july 28–Aug. 2, 2019, Singapore.

[399] Bessho, N., L.-J. Chen, S. Wang, M. Hesse, and L. B. Wilson III (2019), Two-dimensional particle-in-cell simulations of magnetic reconnection and kinetic physics in the Earth's quasi-parallel bow shock (invited), *AGU Fall Meeting Abstracts*, pp. SH21A–03, Dec. 9–13, 2019, San Francisco, CA.

[400] Turner, D. L., T. Z. Liu, and L. B. Wilson III (2019), Foreshock Transient Phenomena Observed by the Magnetospheric Multiscale (MMS) Mission (Invited), *AGU Fall Meeting Abstracts*, pp. SM53B–02, Dec. 9–13, 2019, San Francisco, CA.

[401] Wang, S., L.-J. Chen, N. Bessho, M. Hesse, L. B. Wilson III, et al. (2019), Magnetic reconnection observations in the bow shock transition region (invited), *AGU Fall Meeting Abstracts*, pp. SH21A–01, Dec. 9–13, 2019, San Francisco, CA.

[402] Collinson, G., L. B. Wilson III, N. Omidi, D. G. Sibeck, J. Espley, C. Fowler, D. Mitchell, J. Grebowsky, C. Mazelle, S. Ruhunusiri, J. Halekas, R. Frahm, T. Zhang, Y. Futaana, and B. Jakosky (2020), Solar Wind induced waves in the skies of Mars: Ionospheric compression, energization, and escape resulting from the impact of ultra-low frequency magnetosonic waves generated upstream of the Martian bow shock (invited), in *EGU General Assembly Conference Abstracts*, vol. 22, p. 1966, May 3–8, 2020, Vienna, Austria.

[403] Wilson III, L. B. (2020), The Solar Wind, *Magnetosphere Online Seminar Series*, on May 4, 2020.

List of Invited Talks/Presentations
Lynn B. Wilson III

[404] Wilson III, L. B. (2020), Particle Energization at Collisionless Shock Waves (invited), *Astrophysical and Planetary Sciences Colloquium*, colloquium for the Department of Astrophysical and Planetary Sciences at University of Colorado Boulder, Oct. 5, 2020.

[405] Wilson III, L. B. (2020), The discrepancy between simulation and observation of electric fields in collisionless shocks, *MMS FALL 2020 Science Working Team Meeting*, on Oct. 6–8, 2020, Virtual Meeting.

[406] Wilson III, L. B. (2020), Energy partition at interplanetary shocks, Solar Orbiter *Working Group: Shocks and Particle Energisation*, on Oct. 26, 2020, Virtual Meeting.

[407] Wilson III, L. B. (2020), The nonequilibrium solar wind electrons: Why care?, *Heliophysics Director's Seminar*, Nov. 20, 2020, Goddard Space Flight Center, Presentation for the Sciences and Exploration Directorate Director.

[408] Madanian, H., M. I. Desai, J. L. Burch, S. A. Fuselier, L. B. Wilson III, O. Le Contel, S. J. Schwartz, D. L. Turner, N. Omidi, K. Ogasawara, R. E. Ergun, N. Ahmadi, C. Russell, D. J. Gershman, and P.-A. Lindqvist (2020), The Dynamics of High Mach Number Quasi-Perpendicular Shocks, *AGU Fall Meeting Abstracts*, pp. SH047–02, Dec. 7–11, 2020, San Francisco, CA, Virtual.

[409] Wang, S., L.-J. Chen, N. Bessho, M. Hesse, L. B. Wilson III, R. E. Denton, J. Ng, B. L. Giles, R. B. Torbert, and J. L. Burch (2020), Magnetic reconnection observed at Earth's bow shock (Invited), *AGU Fall Meeting Abstracts*, pp. SM038–01, Dec. 7–11, 2020, San Francisco, CA, Virtual.

[410] Wilson III, L. B. (2021), Particle Energization at Collisionless Shock Waves (invited), *Space Plasma Physics Seminar*, Space Plasma Physics Seminar for the Department of Physics and Astronomy at Rice University, Feb. 16, 2021.

[411] Chen, L.-J., N. Bessho, S. Wang, M. Hesse, L. B. Wilson III, and J. Ng (2021), Magnetic reconnection and kinetic waves in the Earth's quasi-parallel bow shock, *Features in Plasma Physics Webinar*, on February 26, 2021.

[412] Wilson III, L. B. (2021), Particle Energization at Collisionless Shock Waves (invited), *Monthly Meeting of the National Capital Astronomers*, Presentation for the Monthly Meeting of the National Capital Astronomers (virtual) on Oct. 9, 2021.

[413] Wilson III, L. B., A. L. Brosius, D. J. Gershman, S. J. Schwartz, H. Madanian, I. J. Cohen, D. L. Turner, and K. Goodrich (2021), MMS Observations of nonlinear whistler precursor particle acceleration, in *APS Meeting Abstracts*, p. CM10.00001, 63rd Annual Meeting of the APS Division of Plasma Physics, Nov. 8–12, 2021.

[414] Wilson III, L. B. (2022), The Sun Radio Interferometer Space Experiment (SunRISE) Mission, *Heliophysics Director's Seminar*, Mar. 16, 2022, Goddard Space Flight Center, Presentation for the Sciences and Exploration Directorate Director.

[415] Wilson III, L. B. (2022), Comparative collisionless shocks beyond Earth, *MMS Community Workshop*, May 9–13, 2022, Daytona Beach, FL.

List of Refereed Publications
Lynn B. Wilson III

[416] Wilson III, L. B. (2022), Suprathermal particles and collisionless shocks, *2022 SHINE Conference*, held June 27 to July 1, 2022, Honolulu, Hawaii.

[417] Wilson III, L. B. (2022), Particle Energization at Collisionless Shock Waves and Particle Transport in the Interplanetary Medium, *6th ICM Theory and Computation Workshop*, held August 15–19, 2022, Copenhagen, Denmark.

[418] Wilson III, L. B. (2023), Nonequilibrium solar wind particle distributions: Why care?, *KU Leuven Physics Colloqium*, Colloqium for the Centre for Mathematical Plasma Astrophysics, at the Department of Mathematics of the KU Leuven, May 8–12, 2023 in Leuven, Belgium.