MMS Student Accomplishments

(Updated February 2020)

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<th>Institution</th>
<th>Ph.D. Dissertations</th>
<th>Master Theses</th>
<th>Undergraduate Theses</th>
<th>Student Paper Awards</th>
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<tbody>
<tr>
<td>Karl-Franzens University Graz, Austria</td>
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<td>Tokyo Institute of Technology, Japan</td>
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<td>Uppsala University, Sweden</td>
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Ph.D. Dissertations

- 2020

Oimatsu, Satoshi, Energy Transfer Between Pc4-5 Geomagnetic Pulsations and Energetic Ions due to Drift-Bounce Resonance in the Earth's Magnetosphere, Kyoto University, Japan, 2020.

2019


Zhao, Cong, Statistical Study on Two Types of Flux Transfer Events Observed by MMS Spacecraft, Ph.D. Dissertation, University of California, Los Angeles, CA, 2019.

- 2018

Broll, Jef, Ion Dynamics at Earth's Bow Shock and Magnetopause, Ph.D. Dissertation, University of Texas at San Antonio, Southwest Research Institute, 2018.

2017


2016

Genestreti, Kevin J., Spatial characteristics of magnetotail reconnection and properties of the plasmasphere during dayise reconnection, Ph.D. Dissertation, University of Texas at San Antonio, Southwest Research Institute, 2016.


Vines, Sarah K., Ion scale characteristics and dynamics of dayside magnetopause reconnection exhausts: Effects of interplanetary magnetic field orientation, Ph.D. Dissertation, University of Texas at San Antonio, Southwest Research Institute, 2016

2015

Dahlin, Joel T., Electron Acceleration in Magnetic Reconnection, Ph.D. Dissertation, Department of Physics, University of Maryland, College Park, 2015.

Master Theses:

2020

Araki, Mizuho, Preferential ion and electron heating of magnetic reconnection: Statistical study based on 3-D Maxwellian fitting to plasma velocity distribution function, Master Thesis, The University of Tokyo, 2020.


Watanabe, Kaori, Statistical study on electron and ion temperatures in the near-Earth plasma sheet during the active phases, Master Thesis, The University of Tokyo, 2020.

2019


Kobayashi, Yuki, Study on anomalous resistivity around neutral line in the dayside magnetosphere: Two fluid equation analysis with MMS data, Master Thesis, Nagoya University, 2019.


2018

Walia, Nehpeet Kaur, A statistical study of slow-mode shocks observed in the dayside magnetopause by Magnetospheric Multiscale (MMS), Master Thesis, The University of Tokyo, 2018.


Undergraduate Theses

- 2016


Outstanding Student Paper Awards

- 2019

Yi Qi, University of California, Los Angeles

Jeffrey Broll, University of Texas at San Antonio

Observations and simulations of specularly reflected He\textsuperscript{++} at Earth's quasiperpendicular bow shock, presented at 2016 Fall AGU Meeting.

Katherine Goodrich, University of Colorado at Boulder

Classifying Large-Amplitude Parallel Electric Fields Along the Magnetopause and Their Effect on Magnetic Reconnection, presented at 2016 Fall AGU Meeting.