

**Society of  
Physics Students  
welcomes you to  
our Guest Lecture**

*Date: Wednesday  
October 6, 2021*

*Time:  
6 pm EST*

*Location:  
S211  
Or Virtual  
On Zoom*

*Scan the QR Code below, use the  
link, or use the meeting ID and  
Password to join!*



[https://tinyurl.com/  
womeninscience1](https://tinyurl.com/womeninscience1)

*Meeting ID:  
984 0414 3768  
Password: Science*

# Women in Science

In the “Women in Science” series sponsored by the Society of Physics Students, we invite you to a hybrid get together with SPS Co-President Andrea Houck. All interested students, faculty, and friends are welcome to participate in this conversation that will be moderated by the SPS student board.

Andrea Houck, Summer Intern at Brookhaven National Lab,  
2021

Education: Undergraduate student at Lawrence Technological University

As part of the Summer Undergraduate Laboratory Internships program, I performed research at Brookhaven National Laboratory (BNL). The Soft Inelastic X-ray Scattering (SIX) beam line located at the National Synchrotron Light Source II (NSLS II) at BNL studies electronic excitations in materials using inelastic x-ray scattering. Scattered x-rays are detected by an Electron Multiplying Charge Coupled Device (EMCCD). My project investigated the spreading of charge across the detector. We wrote an equation for the radial spreading. We also considered the effect of initial conditions on the charge distribution. The project aim was to provide a predictive function for determining what distribution of charges should be observed across the EMCCD.



Society of Physics Students

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