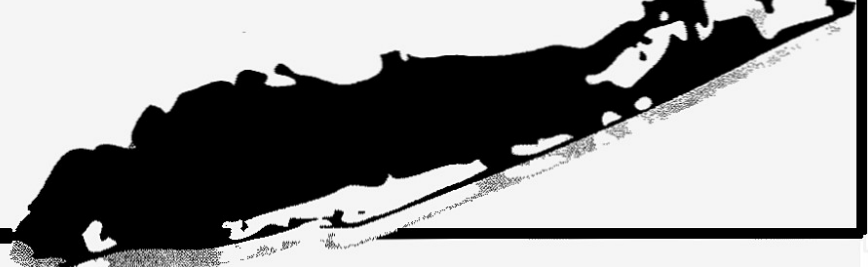




METALLAGRAM

LONG ISLAND CHAPTER



Volume 63 Issue 5

Chapter website: <http://DoL1.eng.sunysb.edu/asm/>

Joint Meeting with the Long Island Section of the American Nuclear Society

When Wednesday, January 19, 2022

Where Pollo Rico Latin Bistro, Centereach, NY

Topic: Commissioning the Dark Energy Telescope

Speaker: Rebecca Coles, Brookhaven National Laboratory

Social hour ... 6:00 pm Dinner ... 7:00 pm Meeting ... 8:00 pm

Members ... \$25 Guests ... \$27 Students ... \$15

(New and recently transferred-in members free)

Reservations appreciated – contact Dan Migliorino

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Directions to Pollo Rico Latin Bistro

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<http://www.polloricolatinbistro.com/>

The Speaker

Rebecca Coles is an Assistant Physicist on the Detector Systems and Applications team at Brookhaven National Laboratory where she works on AI and machine learning software. She did her PhD at Wayne State University, where she was funded by WSU, with additional funding from the Department of Energy Grant: Office of Science Graduate Student Research (SCGSR). She has also worked at: the National Synchrotron Light Source II (NSLSII) (Experimental Controls and Data Acquisition), The Ohio State University (Dark Energy Spectroscopic Instrument (DESI) and Sloan Digital Sky Survey V (SDSS-V)), Brookhaven National Laboratory (Large Synoptic Survey Telescope (LSST)), Lawrence Berkeley National Laboratory (Baryon Oscillation Spectroscopic Survey (BigBOSS)), and Fermilab (Sloan Digital Sky Survey II (SDSSII), Supernova Acceleration Probe (SNAP), and the Tevatron Particle Accelerator.

The Topic

The Dark Energy Spectroscopic Instrument (DESI) is under construction to measure the expansion history of the Universe using the Baryon Acoustic Oscillation technique. The spectra of 35 million galaxies and quasars over 14000 sq deg will be measured during the life of the experiment. A new prime focus corrector for the Kitt Peak National Observatory (KPNO) Mayall telescope will deliver light to 5000 fiber optic positioners. The fibers in turn feed ten broad-band spectrographs. The primary goals of this program were to calculate the transformations and further develop the systems that will place fibers within 5µm RMS of the target positions. We used the commissioning instrument metrology program to measure the absolute three axis Cartesian coordinates of the five charge coupled devices (CCDs) and 22 illuminated fiducials on the commissioning instrument.



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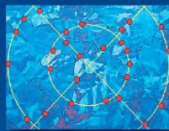
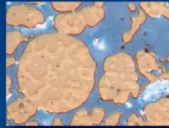
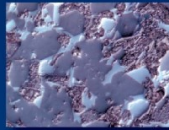
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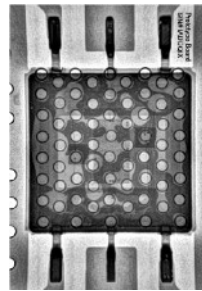
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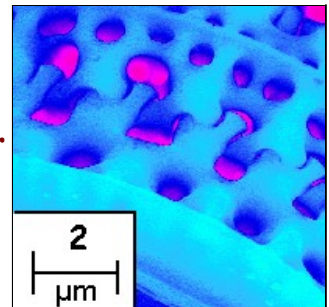
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Long Island Chapter Meeting Schedule

Feb. 16, 2022 Speaker: Matt May, Dayton T Brown
Topic: Vibration Testing
Place: Pollo Rico, Centereach NY

Mar. 23, 2022 Topic: Diesel Engines & Thermal Spray
Speaker: John Saputo, CTSR/SBU
Place: Pollo Rico, Centereach, NY

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