



saturday morning PHYSICS

Session One

Lecture and Tour Schedule

Sept 28–Dec 14, 2019

Classes meet in Wilson Hall – One West.

Lectures begin at 9:00 a.m. – ¹Tours are from 11 a.m.–noon.

Dates	Topic/Lecture	Teacher	Tour Groups
Sep 28	Introduction to Science at Fermilab	Pedro Machado <i>Fermilab Particle Physics Division</i>	Groups 1 & 3 – Wilson Hall 15th Floor Groups 2 & 4 – Accelerator
Oct 5	Special Relativity	Kevin Kelly <i>Fermilab Particle Physics Division</i>	Groups 1 & 3 – Accelerator Groups 2 & 4 – Wilson Hall 15th Floor
Oct 12	The Standard Model of Particle Physics	Allison Reinsvold Hall <i>Fermilab Scientific Computing Division</i>	Group 1 – Booster & MI Group 2 – Neutrino Group 3 – Muon Campus Group 4 – SiDet
Oct 19	The Ghostly Neutrinos	Karl Warburton <i>Iowa State University</i>	Group 1 – SiDet Group 2 – Booster & MI Group 3 – Neutrino Group 4 – Muon Campus
Oct 26	Quantum Mechanics	Dan Hooper <i>Fermilab Particle Physics Division</i>	Group 1 – Muon Campus Group 2 – SiDet Group 3 – Booster & MI Group 4 – Neutrino
Nov 2	Quantum Computing	Gabe Perdue <i>Fermilab Quantum Science Program</i>	Group 1 – Neutrino Group 2 – Muon Campus Group 3 – SiDet Group 4 – Booster & MI
Nov 9	How We Make Particles	Timofey Zolkin <i>Fermilab Scientific Computing Division</i>	Group 1 – SRF Group 2 – Magnets Group 3 – DZero Group 4 – Q&A One West Group 5 – Q&A One West
Nov 16	Cosmology	Adam Anderson <i>Fermilab Particle Physics Division</i>	Group 1 – Q&A One West Group 2 – SRF Group 3 – Magnets Group 4 – GCC Group 5 – DZero
Nov 23	Energy and Climate	Jim Franke <i>University of Chicago</i>	Group 1 – DZero Group 2 – GCC Group 3 – Q&A One West Group 4 – SRF Group 5 – Magnets
Nov 30	*****NO CLASS*****	Holiday Break	*****NO CLASS*****
Dec 7	How We Detect Particles	Petra Merkel <i>Fermilab Particle Physics Division</i>	Group 1 – Magnets Group 2 – Q&A One West Group 3 – GCC Group 4 – DZero Group 5 – SRF
Dec 14	Physics and Society	Tim Meyer <i>Fermilab Director's Office</i>	Graduation Day - No tours

¹The DZero tour lasts a longer than the other tours.
Students should expect to be back at Wilson Hall by about 12:30 p.m.
Please consider your safety before attempting to come to class due to inclement weather.

<http://saturdaymorningphysics.fnal.gov>

Registration Contact: saturdaymorningphysicsstudents@fnal.gov

Last revision: November 7, 2019