

The graphic shows the distance between the two facilities in the Deep Underground Neutrino Experiment, or DUNE. The structures appear on a curved plane indicating the surface of the Earth. The first facility, located on the right edge of the graphic, is Fermilab in Batavia, Ill. The second facility, on the left edge of the graphic, is the Sanford Underground Research Facility, or SURF, in Lead, SD. The distance between the facilities is labeled as 800 miles or 1,300 kilometers. A dotted line extending from Fermilab to SURF shows the underground path of the neutrinos generated at Fermilab. The line travels from beneath Fermilab through shapes labeled “proton accelerator,” “neutrino production” and “particle detector.” The neutrinos then encounter shapes labeled “underground particle detector” and “existing labs” beneath SURF. The dotted line of the neutrinos breaks into three separate lines about one-third of the distance between Fermilab to SURF to indicate the particle beam widens as it travels further from its original source.