Group C

What are neutrinos and what are some big questions about neutrinos?

nearly massless, neutral particles that interact so rarely with other matter that trillions of them pass through our bodies each second without leaving a trace

first discovered in 1956, come in three flavors (or types) and have some mysterious characteristics. They have puzzlingly low masses when compared to other elementary particles, and they are able to oscillate, or change from one type of neutrino to another.

the neutrino will aid humanity's understanding of the origin of matter, the unification of forces and the Big Bang.

How can learning about neutrinos make us cool like liquid helium

What are some of the research goals of the NOvA experiment?

The Nova experiment is trying to explore the oscillation of neutrinos. Looking to better understand these strange particles through precision measurements of their oscillation properties
There are 260 scientists and engineers working on this (@ Fermilab)