

Abstract Submitted
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Tour of Jefferson Laboratory — The Department of Energy's Thomas Jefferson National Accelerator Facility was constructed between 1987 and 1992. Operation of its Continuous Electron Beam Accelerator Facility, based on superconducting radio-frequency accelerating technology, began in 1994. This it is the world's most advanced particle accelerator for investigating the quark structure of the atomic nucleus. Today JLab employs over 500 staff members and serves a nuclear physics user community of over 2000 international scientists, including many faculty and students from the SESAPS region. With industry, defense and university partners, Jefferson Lab has a derivative mission as well: applied research for using the Free-Electron Lasers based on technology the laboratory developed to conduct its physics experiments. Buses will leave the Williamsburg Hospitality house beginning at 1 PM for the 17-mile trip to Jefferson Lab. Once there, visitors will circulate among six sites, where they can see the CEBAF accelerator and its operations center, experimental halls where beams interact with targets to explore details of the sub-nuclear force, and a kilowatt-class high average-power, sub-picosecond free-electron laser, covering the mid-infrared and ultraviolet spectral region. Buses will be available to return visitors to the Williamsburg Hospitality House until 5 PM. You must be 18 years old or over to attend the tour. There will be a lot of walking. Safety requirements dictate pants and close-toed shoes with no sandals or high heels. Note that the accelerator portion of the tour is NOT handicapped accessible and you must be able to walk up and down four flights of stairs. *Important Notice for JLab visitors who were born outside the United States.* U.S. Department of Energy headquarters approval is required before any persons whose country of birth is Cuba, Iran, Libya, North Korea, Sudan or Syria can enter DOE facilities, including Jefferson Lab. Visitors from these countries may not be on site or tour Jefferson Lab without first going through this formal approval process. This process may take up to six (6) months. Please contact Linda Ware at ware@jlab.org if you have questions or need to apply to the DOE for the tour.

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