

The GLUEX JLab Eta Factory (JEF) Experiment at JLAB Hall D

Friday, September 20, 2024 9:30 AM (30 minutes)

The new JLab Eta Factory (JEF) in Hall D at Jefferson Lab will extend the scientific potential of the GlueX detector beyond its original program to perform precision measurements of various eta(η) decays with emphasis on rare neutral modes. The scientific program spans from precision tests of low-energy QCD to the search for gauge bosons in the mass range below 1 GeV, coupling the SM sector to the dark sector. Photoproduction of energetic eta(η) mesons using a tagged photon beam and detection of recoil protons and multi-photon final states suppresses background and produces a high-statistics data sample of eta mesons. An overview of the JEF project will be presented

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