

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

Friday, 20 September 2024 09:30 (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 $\eta(\prime)$ 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 $\eta(\prime)$ 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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