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Study of the $\eta(') \to e^+e^-\gamma$ decay at GlueX and Transition Form Factors CRISTIANO FANELLI, MICHAEL WILLIAMS, Massachusetts Institute of Technology, GLUEX—COLLABORATION — Radiative decays of mesons are powerful probes of the hadron structure. The GlueX experiment will produce and record huge samples of light mesons. In this talk, we discuss the potential for GlueX to study radiative decays of light mesons. For example, the possibility of measuring the transition form factor of the η and η' mesons will be explored. The low Q² slope of the TFF provides a unique method to measure the pseudo-scalar meson radius, whose physical interpretation has still not comprehensively explored.

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