

Abstract Submitted
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The search for the $\Phi(1860)^{--}$ pentaquark with CLAS¹ MAURIK HOLTROP, HOVANES EGIYAN, University of New Hampshire, JÖRN LANGHEINRICH, University of South Carolina, CLAS COLLABORATION — A search for a narrow exotic resonance, the $\Phi(1860)^{--}$, is being conducted in the EG3 experiment with the CLAS detector at Jefferson Lab. The $\Phi(1860)^{--}$ is predicted to be the $S = -2$ exotic state in the pentaquark anti-decuplet. Evidence for this state has been cited by the NA49 experiment, but has not been confirmed so far. The search is conducted by looking for the decay $\Phi(1860)^{--} \rightarrow \Xi^- \pi^-$, which can use the detached vertices of the $\Xi^- \rightarrow \Lambda \pi^-$ and $\Lambda \rightarrow p \pi^-$ decay chain, a new technique for CLAS. We will report on the ongoing analysis.

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