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Progress on the Reconstruction of a Dilution Refrigerator

Friday, 27 September 2019 11:00 (20 minutes)

In this talk I will discuss the dilution refrigerator used in our lab for Polarized Target Physics. Originally constructed at CERN by Niinikoski in the mid 1970's, modified by the Helmholtz Zentrum Geesthacht laboratory for neutron studies, and finally obtained us at UVA for use in the HIGS collaboration. I will discuss the changes that have been made after we started using it. In November 2017, we discovered a leak in the still between two separate vacuum spaces and had no choice but to build a new dilution unit. I will lay out the progress we have made so far, what is currently happening, and the next steps that need to be taken.

Summary

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