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A Search for a Diffuse Flux of UHE Neutrinos from Four Years of Data Taken by Two Stations of the Askaryan Radio Array[1] CARL PFENDNER, Ohio State University, ASKARYAN RADIO ARRAY (ARA) COLLABORATION — The Askaryan Radio Array (ARA) is radio frequency observatory under construction at the South Pole that is searching for ultrahigh energy neutrinos via the Askaryan effect. By instrumenting several gigatons of Antarctic glacial ice, the experiment aims to detect a flux of neutrinos above 10 PeV in energy. A diffuse flux of UHE neutrinos is expected as products of the GZK effect and sources may also directly produce UHE neutrinos. The full detector consisting of 37 stations is being constructed in a phased deployment with 3 stations already in place and two more recently deployed in the 2017-2018 season. Recent preliminary results from a search for a diffuse flux of UHE neutrinos from four years of data from two stations will be presented.

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