Abstract Submitted
for the APR20 Meeting of
The American Physical Society

Results from COSINE-100 ESTELLA BARBOSA DE SOUZA, Yale University, COSINE-100 COLLABORATION — COSINE-100 is a NaI(Tl) dark matter direct detection experiment, with the goal of testing DAMA's claim of dark matter detection by looking for an annual modulation signal. It has eight NaI(Tl) crystals, adding to a total of 106 kg, and 2000 liters of an active liquid scintillator veto. Located at the Yangyang Underground Laboratory, South Korea, COSINE-100 has been running since September 2016. We continue to search for an annual modulation signal, now with a 1 keV threshold and a larger data set covering three modulation cycles. I will discuss recent results and the latest status from COSINE-100.

Estella Barbosa de Souza
Yale University

Date submitted: 10 Jan 2020 Electronic form version 1.4