

Abstract Submitted
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PICO: Current Status and Future Plans RUSSELL NEILSON,
Drexel Univ, PICO COLLABORATION COLLABORATION — The PICO collabo-
ration employs bubble chambers filled with C_3F_8 to search for WIMP dark matter at
the SNOLAB underground facility. Results from previous bubble chambers PICO-
2L and PICO-60 provide the strongest constraints on spin-dependent WIMP-proton
coupling. The next generation of PICO experiments includes PICO-40L, which was
installed at SNOLAB in 2019, and PICO-500, currently being designed for a pro-
jected exposure on the scale of ton-years. This program is projected to improve
WIMP-proton scattering sensitivity by an additional two orders of magnitude. I
will report on the current status and future plans of these experiments.

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