

APR12-2012-000943

Abstract for an Invited Paper  
for the APR12 Meeting of  
the American Physical Society

**New Results from The Search for Dark Matter with XENON100<sup>1</sup>**

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We report new results from the XENON100 dark matter experiment searching for WIMPs. Operating underground at the LNGS in Italy, XENON100 is a dual phase (liquid/gas) time projection chamber containing a total of 161 kg liquid xenon (LXe) with a 62 kg WIMP target mass and 99 kg shield. Initial results obtained from only 11.2 days of data acquired during a commissioning period at the end of 2009 resulted in world-competitive limits on the WIMP-nucleon interaction cross-section. With no evidence of signal, recently published results from 100.9 live-days set the most stringent limit on dark matter interactions to date, excluding cross-sections above  $7.0\text{E-}45\text{ cm}^2$  for a  $50\text{ GeV}/c^2$  WIMP mass at 90% C.L. Following this exposure, in the Summer of 2010, XENON100 was filled with Xe processed through a dedicated cryogenic distillation column to reduce Kr background to levels demonstrated in the 11.2 day commissioning period. The trigger threshold was also lowered and the electron lifetime has improved. Blinded data taking was resumed under these conditions. With excellent stability and performance throughout, the exposure approaches 200 live days at the time of writing. Results from this 200 day WIMP search dataset will be presented.

<sup>1</sup>We gratefully acknowledge the support from the NSF and DOE.

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