

APR16-2016-030044

Abstract for an Invited Paper  
for the APR16 Meeting of  
the American Physical Society

### **Indirect Dark Matter Detection**

MIGUEL SÁNCHEZ-CONDE, The Oskar Klein Centre for Cosmoparticle Physics

The search for dark matter via its annihilation/decay products is a complementary and powerful approach to those being performed at the lab, either in accelerators or in dedicated dark matter particle search experiments. Indeed, recent data collected by gamma-ray, neutrino and/or charged particle experiments from the ground or in orbit have already been used to set competitive constraints on the dark matter interactions and, in a few cases, to even claim a dark matter detection. In this talk, I will review the current status of the field, paying special attention to gamma rays — the golden channel for this kind of searches — and to the main battlegrounds at present.