Title: Discovering Dark Matter at High Nuclear Recoil

Abstract: "While limits from dark matter direct detection are strengthening every year, the current experiments are largely blind to situations where dark matter must up-scatter into an excited state when it hits a nucleus. This ‘inelastic’ dark matter is easy to engineer and is even present in corners of the MSSM. In this talk I will explain why current experiments are so insensitive to inelastic dark matter, then propose a simple modification — looking for dark matter at high nuclear recoil — that will allow existing experiments to constrain (or discover!) inelastic dark matter using existing data."