

Internal Bremsstrahlung Signatures from Dark Matter Annihilations in Light of Direct Detection and Collider Searches

Wednesday 22 May 2013 16:20 (15 minutes)

Over the last years direct dark matter detection, collider searches and gamma ray observations have made tremendous progress towards probing dark matter. In particular searches for gamma ray lines have attracted a lot of attention during the last year. A well known alternative to gamma lines is provided by the hard spectrum of Internal Bremsstrahlung. We investigate the importance of direct detection and collider constraints for IB scenarios and consider prospect for upcoming experiments. With instruments like CTA and Xenon1T it seems even possible to observe dark matter independently both by direct and indirect detection.

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Session Classification: Parallel Session on Dark Matter