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Dark matter “collider” and a new mechanism for
cosmic-ray excesses from non-minimal dark sector

I will discuss interesting phenomena in direct and indirect detections of a non-minimal dark sector. I will first talk about relativistic collisions of dark matter with targets in current and future neutrino detectors such as Super/Hyper Kamiokande and DUNE, which induces cascade signals in a scenario like inelastic boosted dark matter. Then I will suggest a new mechanism for cosmic-ray excesses: Dark Matter Transporting Mechanism.