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Dark Matter simulations, dark disks, and implications for searches

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If a dark disk component exists in our galaxy, it could impact significantly dark matter direct and indirect signals. I will review the possible morphologies of a dark disk, as obtained in recent advanced cosmological simulations. From this, deviations from the standard halo expectations in direct detection signals can be inferred. These include an enhancement of low-energy recoil events, an enhancement of the modulation signal as seen by DAMA, a shift in the modulation phase, an improvement of the general compatibility of DAMA with the limits set by other experiments. Whether this scenario is or is not realistic for the Milky-Way will also be discussed.

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