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Beyond the WIMP paradigm: Asymmetric DM and Self interacting DM

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The search for dark matter over the last three decades has been largely focused on WIMPs. As the sensitivity of experiments searching for the WIMP cuts deep into favored parameter space, theorists and experimentalists are increasingly focusing attention on other well-motivated candidates. We overview several classes of well-motivated theories for dark matter beyond the WIMP, and discuss how new experimental techniques are being devised to search for these candidates.