

Abstract Submitted
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Dark Matter in the Left-Right Twin Higgs Model ETHAN DOLLE,
SHUFANG SU, University of Arizona — In the left-right twin Higgs model, one of
the neutral Higgses is a natural candidate for WIMP dark matter. We analyzed the
dark matter relic density in this framework and identified regions of parameter space
that provide the right amount of dark matter. We also studied the dark matter in
the more general inert Higgs doublet model in which the mass splittings between
the dark matter and other particles do not follow the relations in the left-right twin
Higgs model.

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