

Update on All-Sky DM Paper

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Paper Status

- Finished with Editorial Board stage
 - Waiting on official word from Hermes
 - Will be moving on to collaboration review
 - Author sign-up page coming soon
- Wikipage:
https://private.hawc-observatory.org/wiki/index.php/All-Sky_Dark_Dwarf_Search
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Detecting Dwarfs at a Given Distance

- Requested by Brenda
- How close would a dark dwarf of a given mass have to be to observe at $TS=25$?
 - Assuming 10^{-24} cross section
 - Calculate distance required for J-factor to be large enough
- Originally requested 10^6 Msol dwarf
 - Too small to detect individually at any distance
 - Instead, looked at 10^8 Msol dwarf
 - ~Segue1 sized

Maximum Distance to Detect Dark Matter Emission at TS=25 ($b\bar{b}$)

