



## VERITAS follow-up observation of the blazar TXS 0506+056

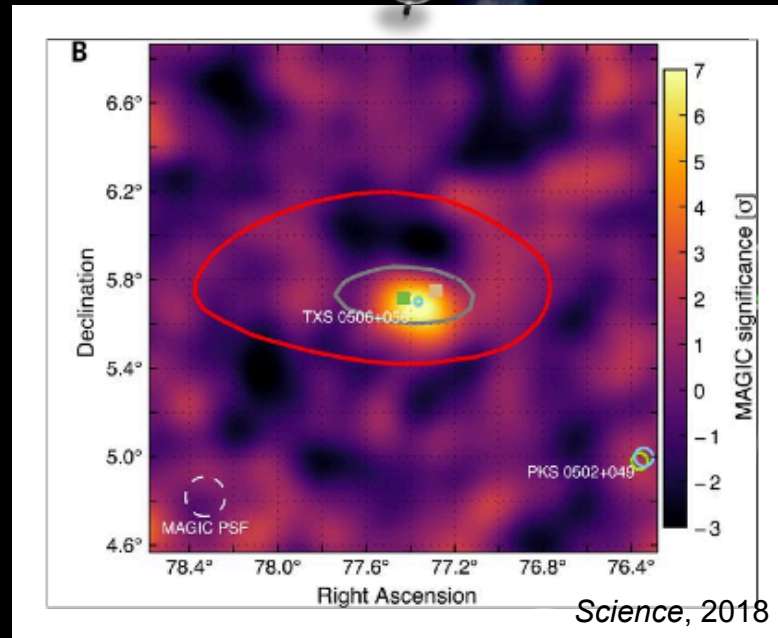
Weidong Jin on behalf of the VERITAS Collaboration and RileyAnne  
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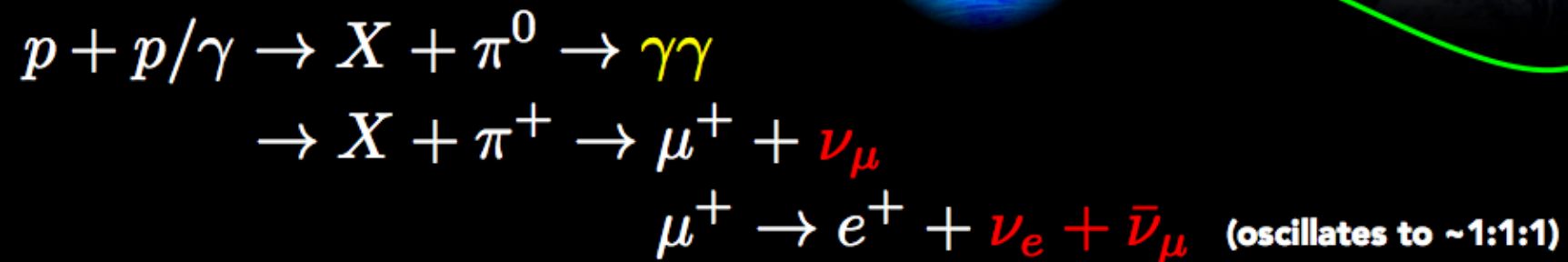
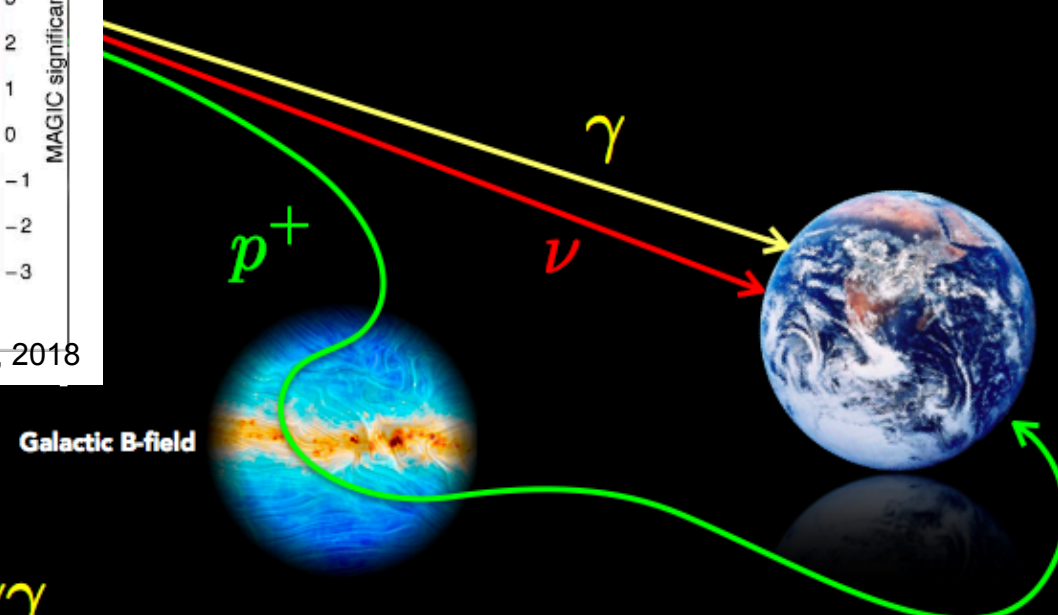




# Motivation



$\sim 3\sigma$  correlation of IC-170922A ( $\sim 300$  TeV) with the flaring **gamma-ray blazar** TXS 0506+056 (*Science*, 2018)



Current configuration of VERITAS

VERITAS follow-up observation and an associated multiwavelength campaign of the potential neutrino blazar TXS 0506+056, collected between October 10, 2018 to March 1, 2021.

# Conclusions

- TXS 0506+056 is in a quiet state from year 2018 to 2021 and shows **a consistent flux level** compare to previous VERITAS observations collected in 2017-2018.
- A X-ray flare (higher than average flux by a factor of  $\sim 2$ ) was observed on MJD 58902.
- **Clear variabilities** were observed in optical, X-ray and high energy gamma-ray bands.