

Updates

Alison Peisker

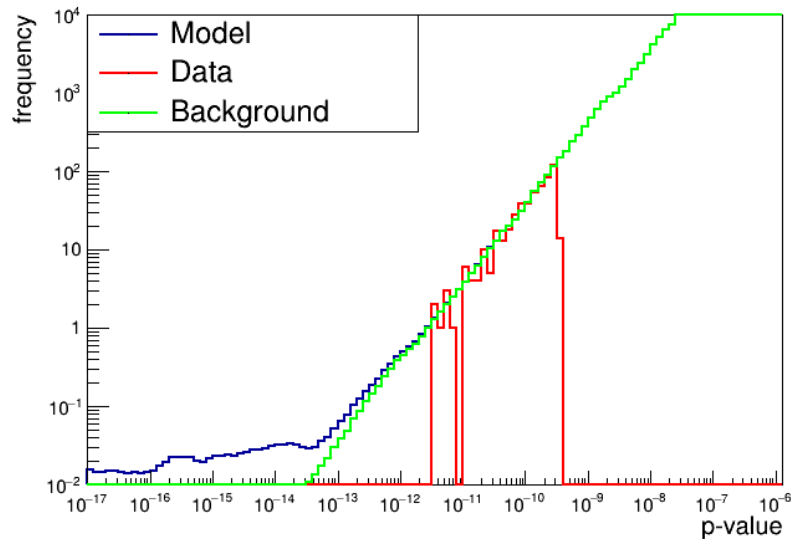
MSU group meeting

6/27/2019

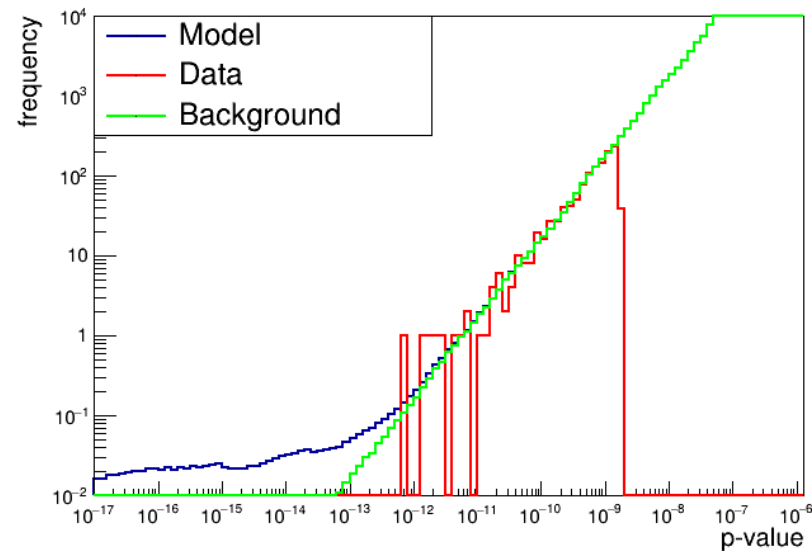
PBH Downselecting

- Used χ^2/dof , Anderson-Darling test, and KS test
- Chose 4x downselecting for 0.2s and 1s, and 6x downselecting for 10s

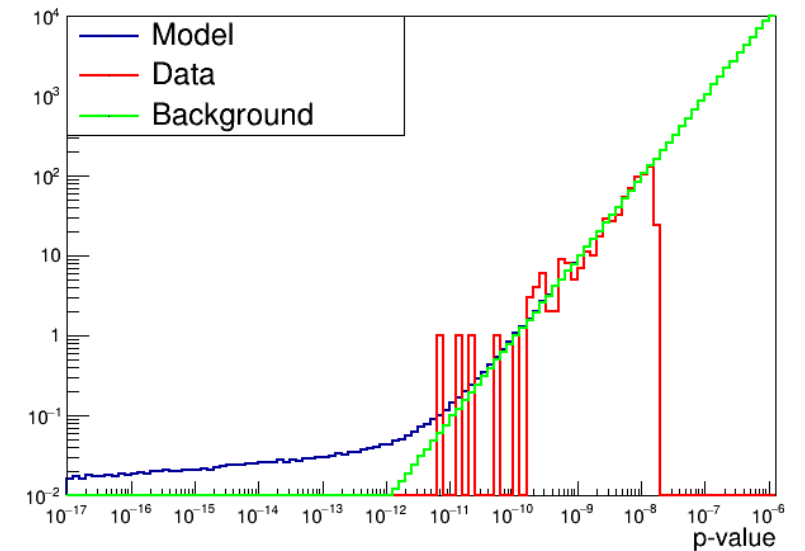
0.2s With Downselecting x4



1s With Downselecting x4

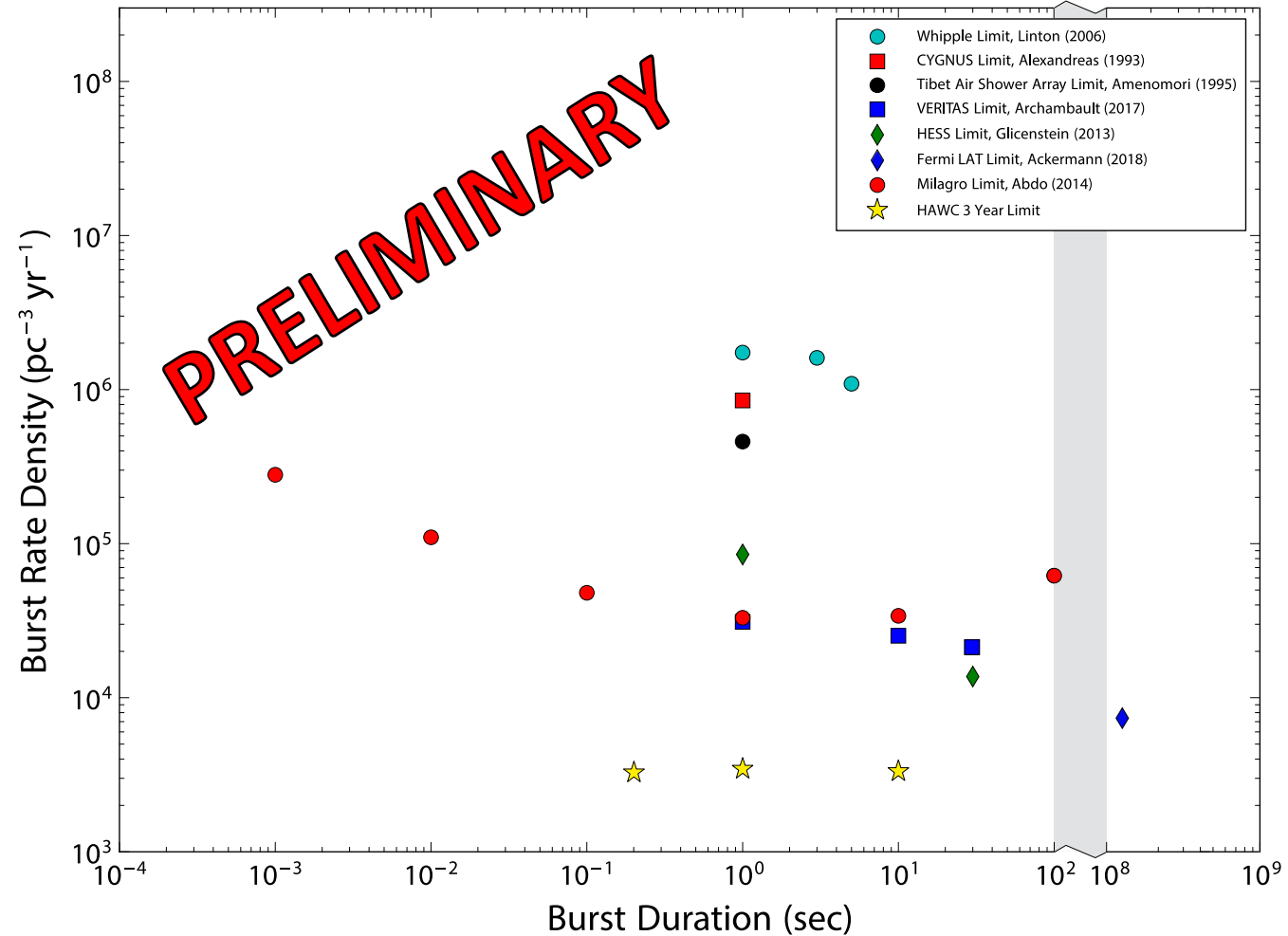


10s With Downselecting x6



PBH limits with downselecting

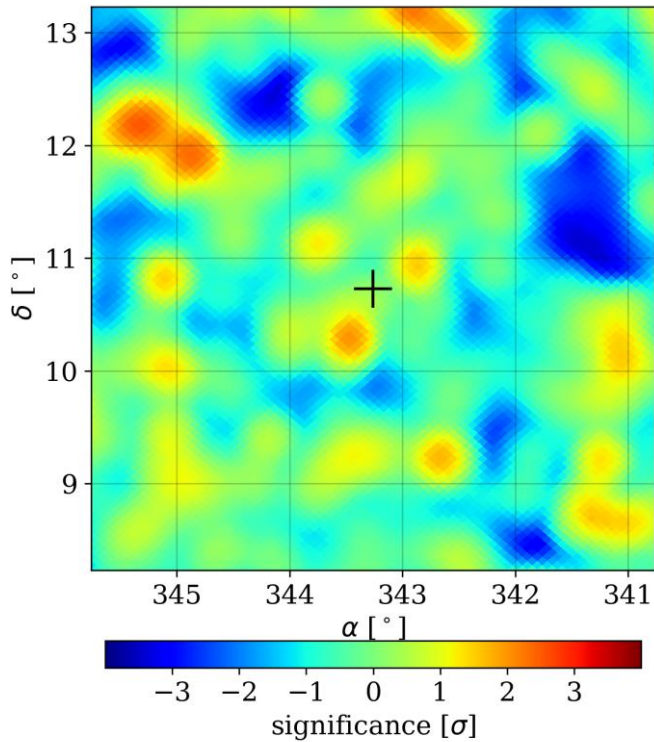
PBH Burst Rate Density Upper Limits



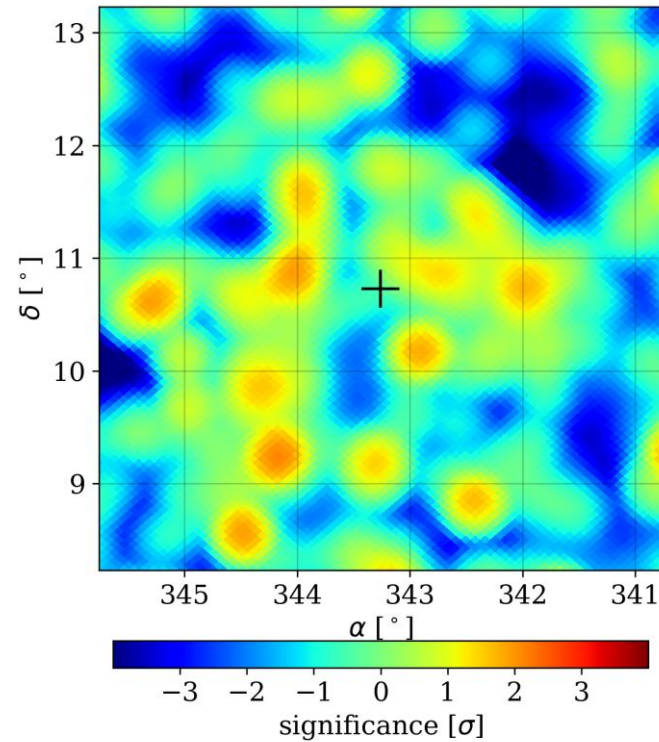
IceCube Projects

- HAWC significance maps of IceCube alert on 6/19/19
- Service project – White Rabbit

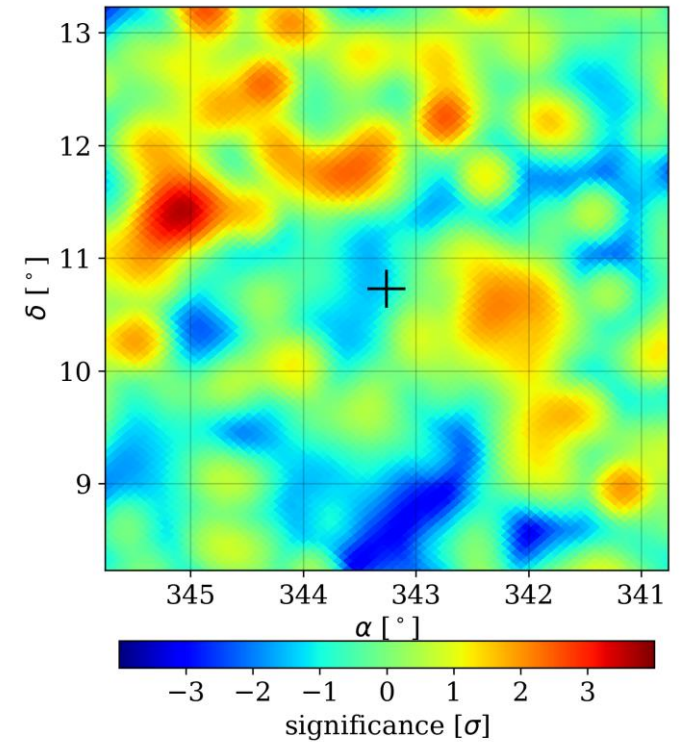
Significance map $5^\circ \times 5^\circ$



Transit on 6/18/19

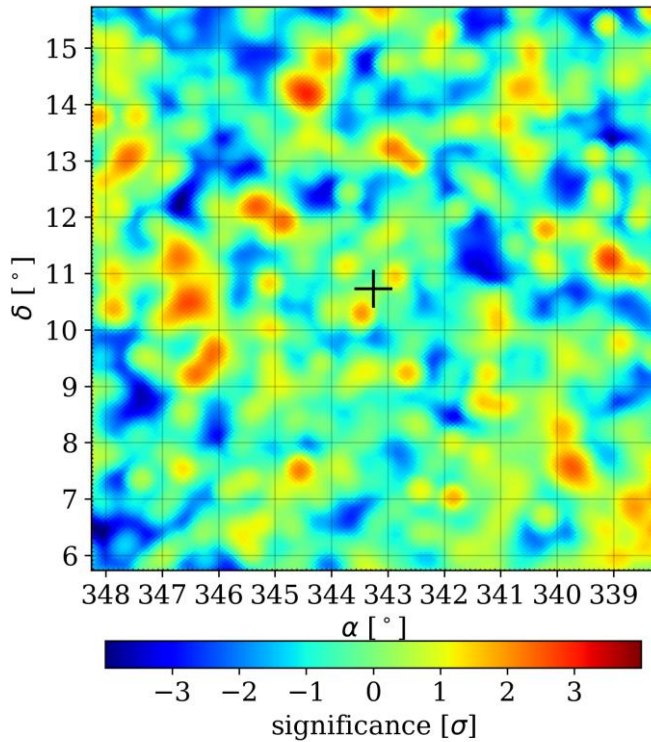


Transit on 6/19/19
(alert)

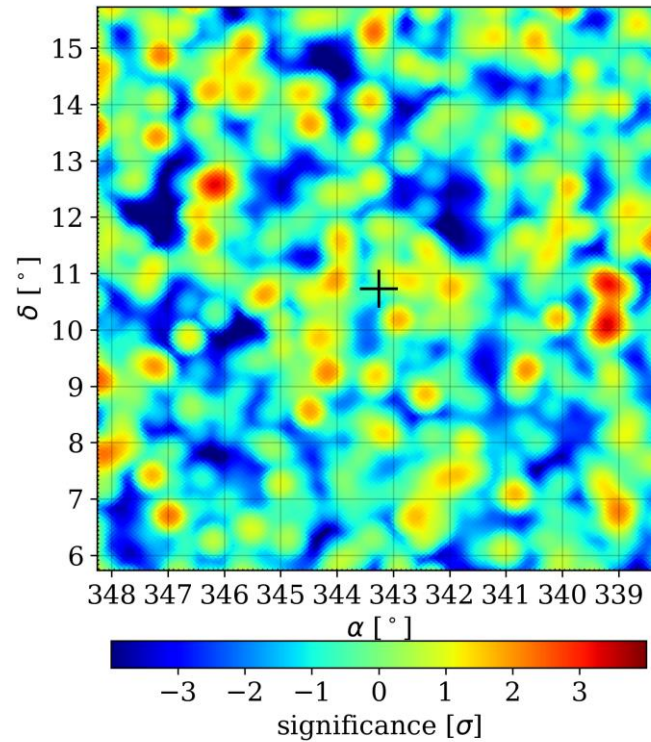


Transit on 6/20/19

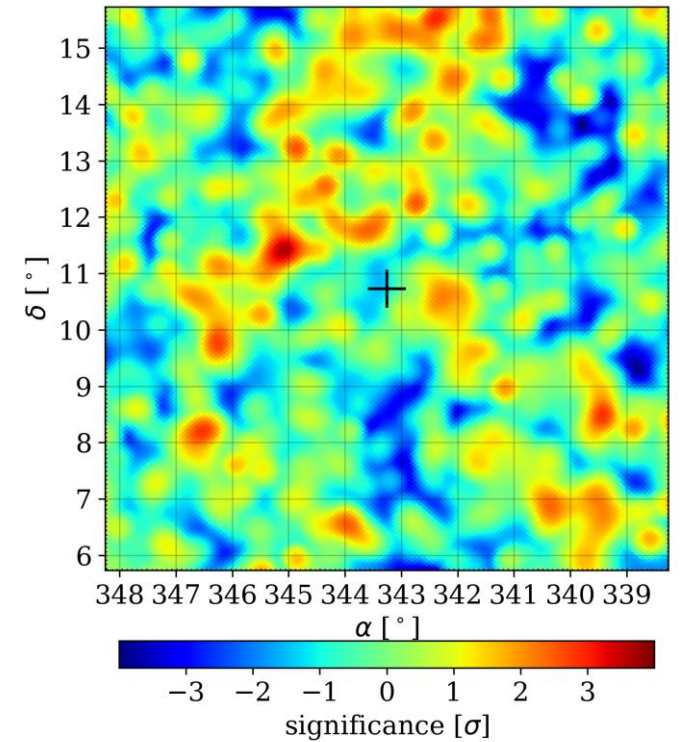
Significance map $10^\circ \times 10^\circ$



Transit on 6/18/19



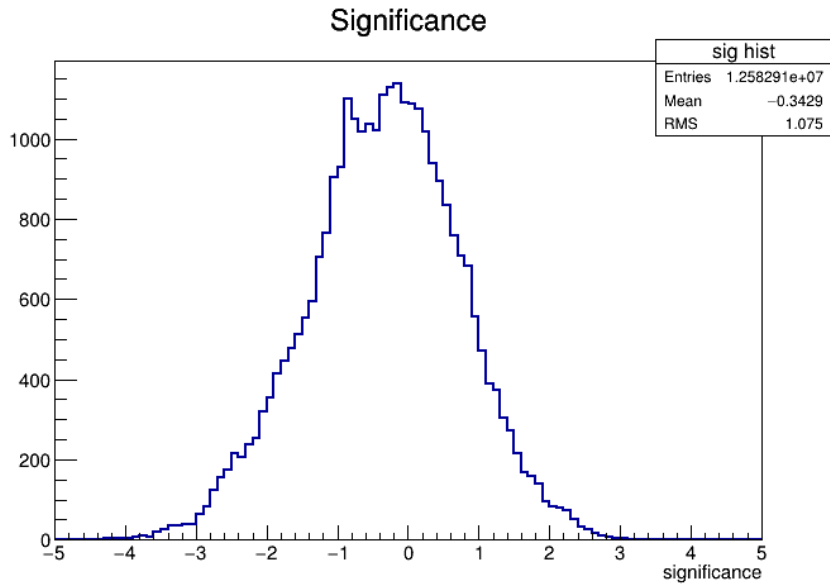
Transit on 6/19/19
(alert)



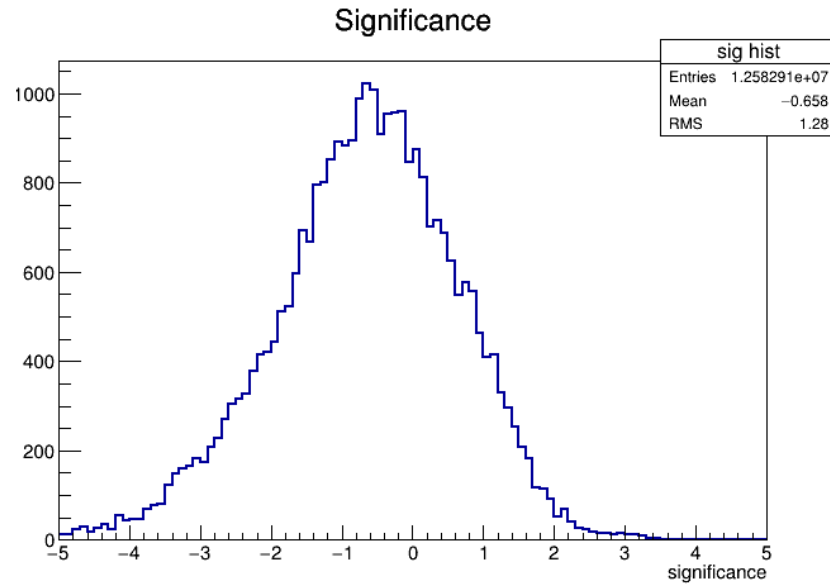
Transit on 6/20/19

Backup

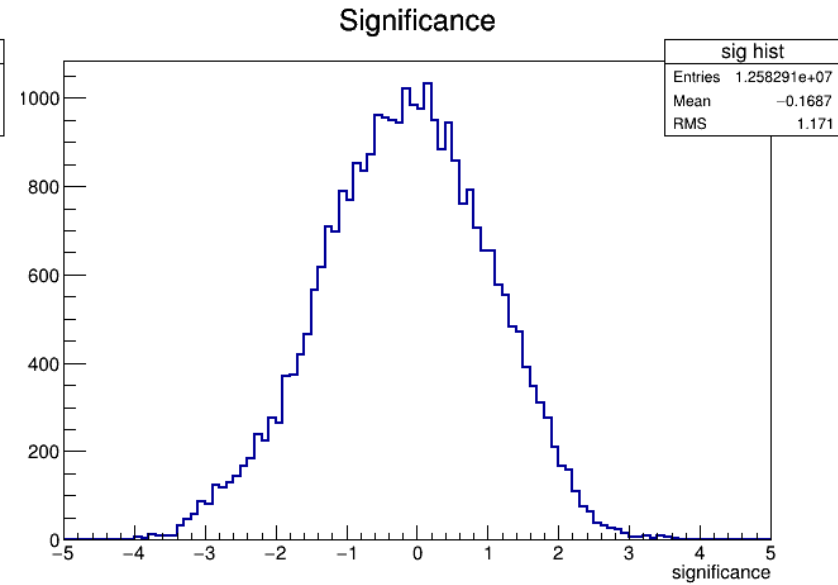
Significance histograms



Transit on 6/18/19



Transit on 6/19/19
(alert)



Transit on 6/20/19

Stats

- Alert transit:
 - Min: -5.96 (347.26, 11.91)
 - Max: 3.44 (339.17, 10.09)
 - Origin: -0.40
- Following transit:
 - Min: -4.02 (339.79, 13.59)
 - Max: 3.64 (345.10, 11.42)
 - Origin: -1.22
- Previous transit:
 - Min: -4.35 (348.13, 6.39)
 - Max: 3.04 (344.44, 14.21)
 - Origin: 0.22