O3 Test & Literature Study

Andy

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Data quality

- 13% of the data suffers the amplitude problem
- Even if the signal can be detected the following up parameter estimation cannot make any valuable analysis
- We will probe the relationship between the parameter and the SNR
- Since the SNR is proportional to the amplitude we can estimate the amplitude directly
A. The above plot is the absolute amplitude mean value relation to polarization angle.

B. The second roll show the amplitude eject from different orientation from the dying star.
We take SNR15 Hp data to train the model and test the performance at Hp SNR 15.

We also test the overall performance.
Model performance train with Hp test on Ht SR FR
Summary

- The performance of the model can not work well with the bad data quality of ht

- Using Hp as training data to test the performance on Ht