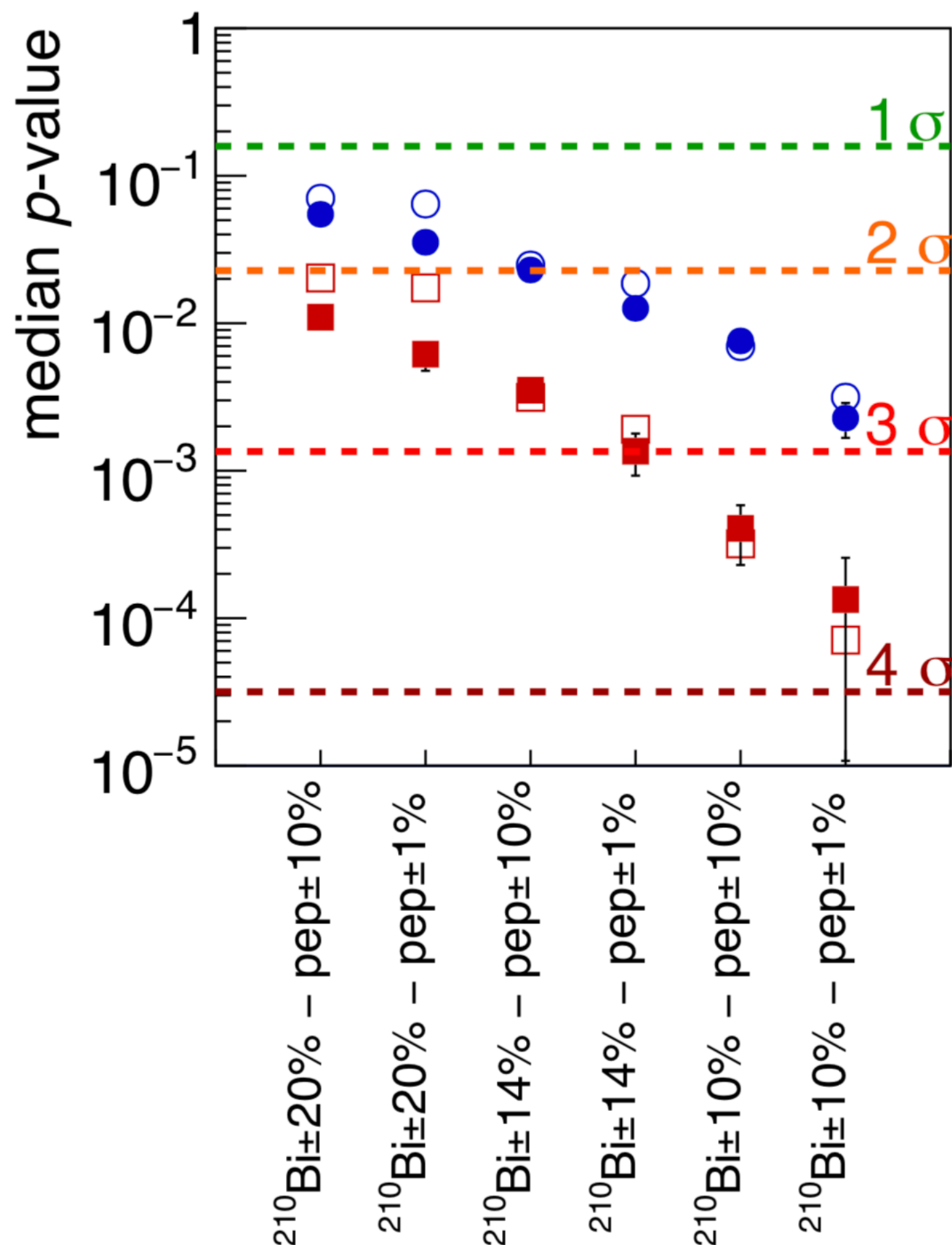


Borexino median discovery power



- AGS09 - counting analysis
- AGS09 - rate + shape analysis
- GS98 - counting analysis
- GS98 - rate + shape analysis

Discovery power evaluated performing an hypothesis test based on a profile likelihood test statistics

- ▶ Results consistent with the expected uncertainty on the $\nu(\text{CNO})$ rate.
- ▶ Stronger constraints
↳ higher sensitivity to CNO signal
- ▶ Improvement due to shape information important only for relatively weak constraints