

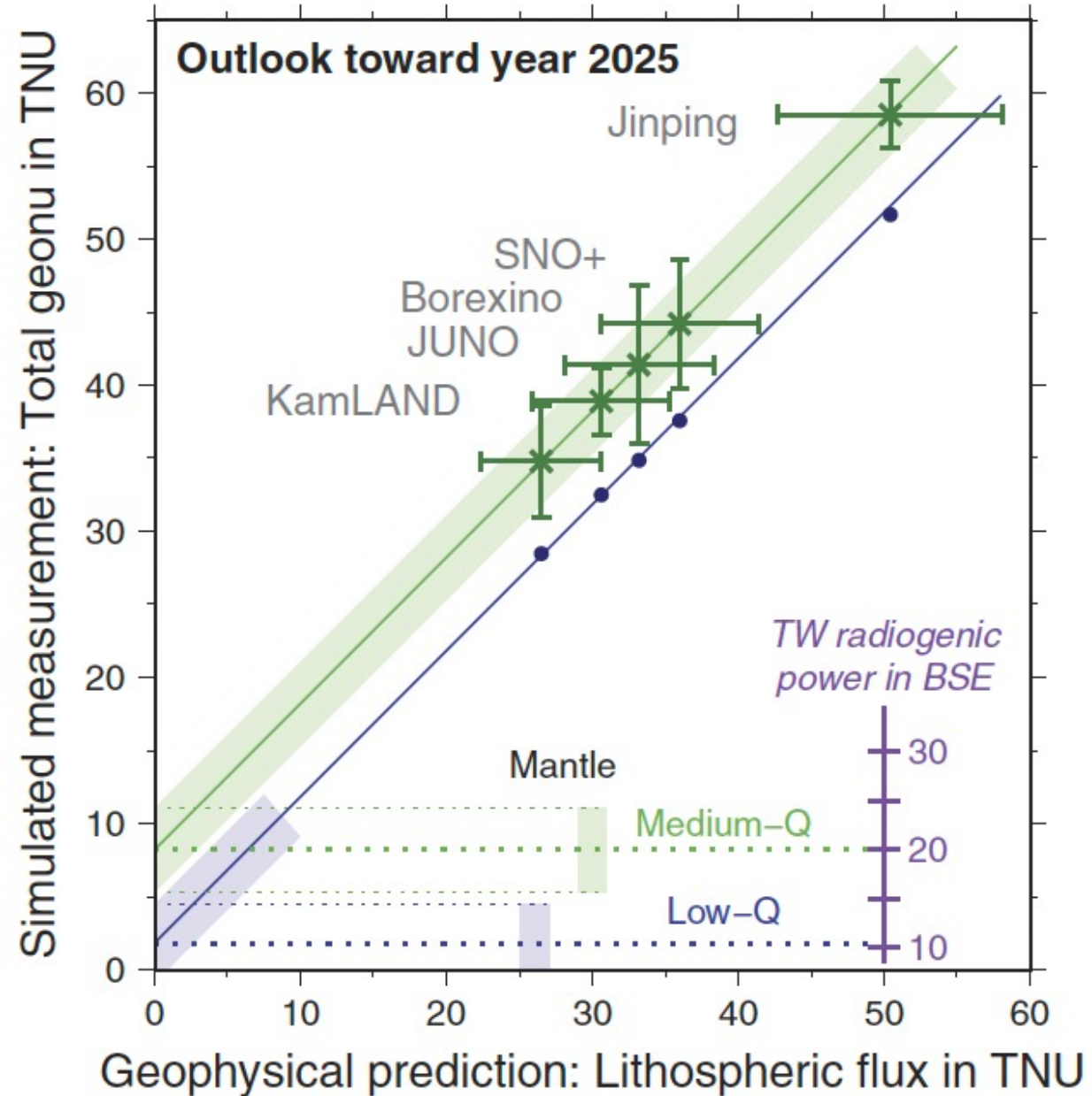
Flash Talk: Global Fits and Error Bars

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We really do Global Fits

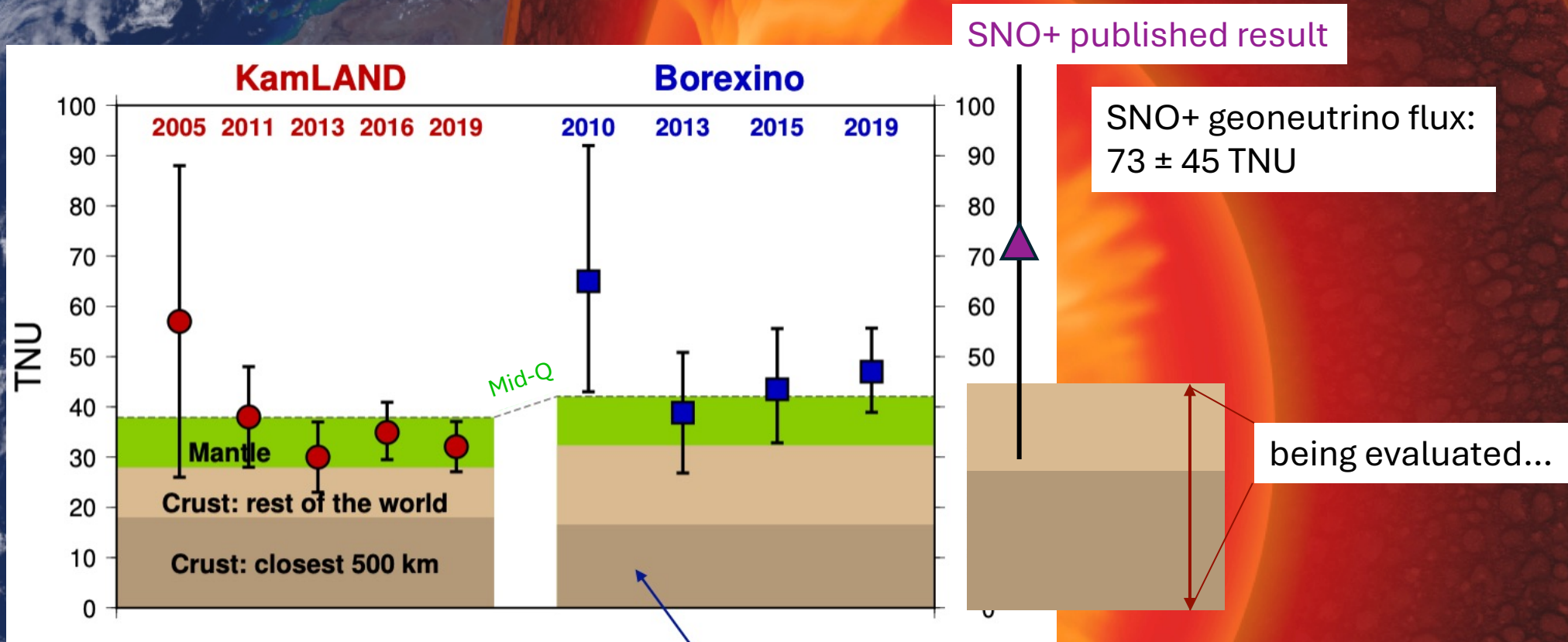
- Is there a uniform mantle?
- The lithospheric flux for each data point requires knowledge of the *local* crust, not uniform for each experiment
- Y-axis is **measured** value with experimental error bars (data)
- X-axis is **calculated** crust+CLM

How do we treat the x-axis error bars in the fit for the intercept?



From Šrámek et al. (2016)

Comparing Borexino and KamLAND *and* SNO+



Geoneutrino prediction from Wipperfurth et al. 2020 JGR doi:10.1029/2019JB018433

Note: this analysis (rightly or wrongly) erases the difference between Borexino and KamLAND mantle rates

Lithospheric model *not* the one used by Borexino in their analysis

SNO+ published result

SNO+ geoneutrino flux: 73 ± 45 TNU

being evaluated...

TNU (terrestrial neutrino unit) = 1 event per 10³² proton-year (100% eff.)