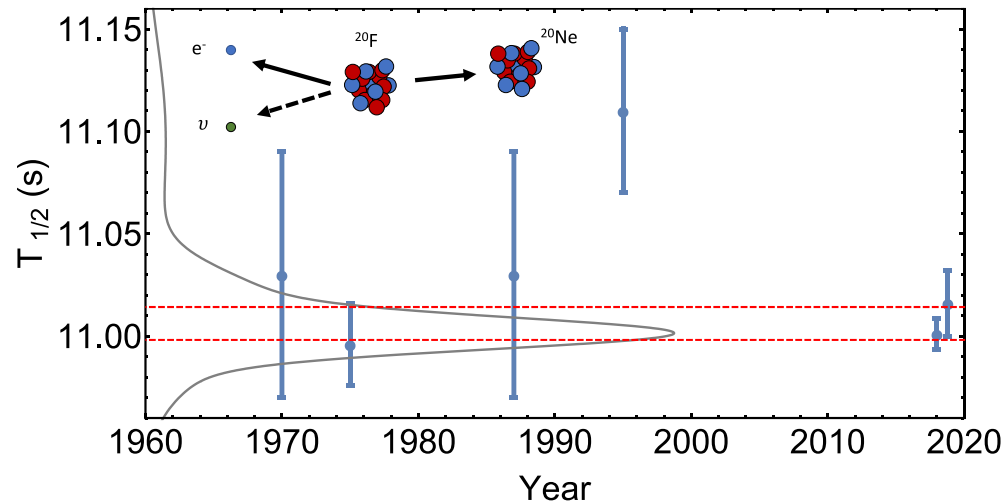
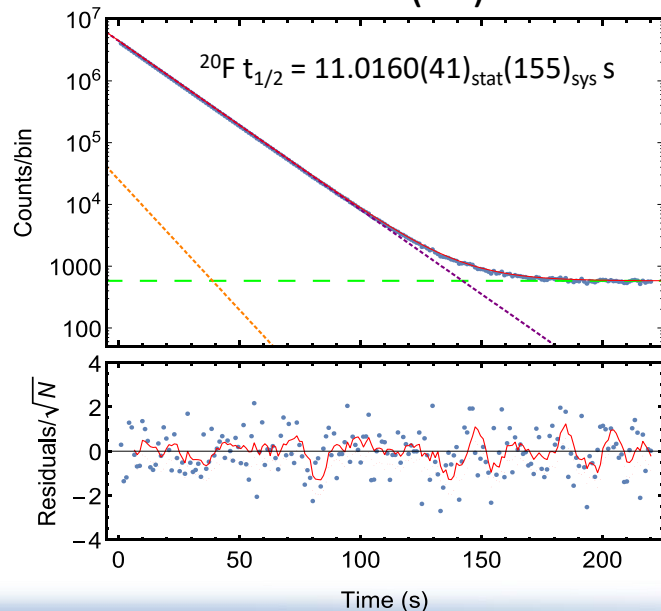


# $^{20}\text{F}$ Half-life Measurement at the NSL



- The half-life of  $^{20}\text{F}$  was precisely measured to be 11.0160(160) seconds, with careful analysis of systematic error, largely due to contamination.
- This resolved a long standing discrepancy, further blurred by a 2018 measurement of the same half-life [M. Hughes *et al.*, PRC **97** 054328 (2018)].
- The half-life of  $^{20}\text{F}$  has proven to be significant in the search for second-class currents of the weak interaction.
- An accurate subset of measurements was determined with the new world value of 11.0062(80) seconds.



D.P. Burdette *et al.*, PRC **99** 015501 (2019).

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