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Model-Independent $\bar{\nu}_e$ Short-Baseline Oscillations from Reactor Spectral Ratios

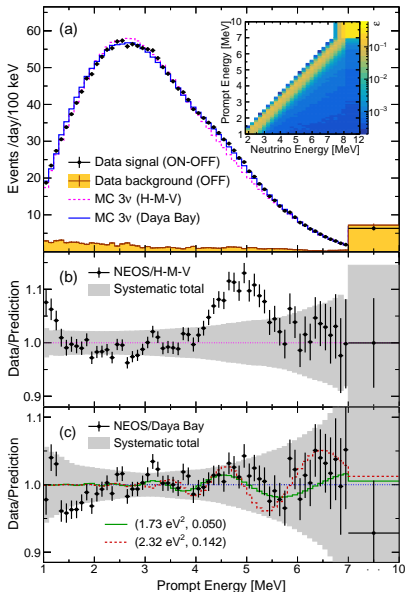
Based on SG et al., PLB 782 (2018) 13–21

[arxiv:1801.06467]

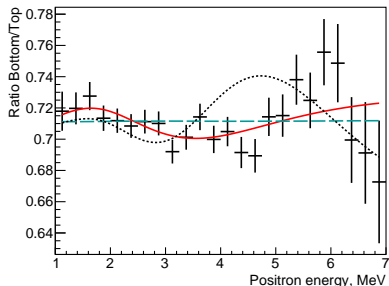
4 June 2018 - Neutrino 2018 - Heidelberg (DE)

Recent SBL results

[NEOS, PRL 118 (2017) 121802]



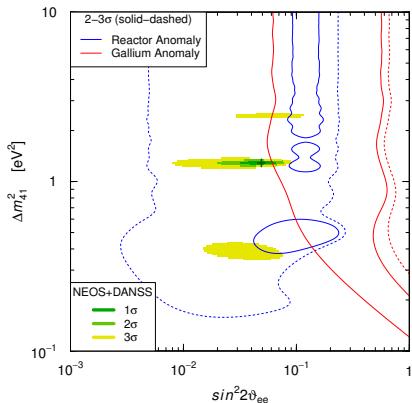
[DANSS, arxiv:1804.04046]



first *model independent* indications in favor of SBL oscillations

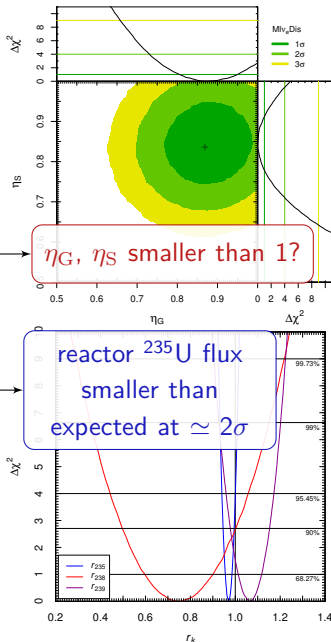
DANSS alone gives a $\Delta\chi^2 \simeq 13$ in favor of a light sterile neutrino!

Model independent constraints



Tension between **DANSS+NEOS** and **Gallium** and **Reactor Antineutrino Anomaly**?

Fit free amplitudes for GALLEX&SAGE efficiencies η_G, η_S and reactor fluxes $r_{235}, r_{238}, r_{239}$



[SG et al., PLB 782 (2018) 13-21]