

V_{ud} via nuclear theory

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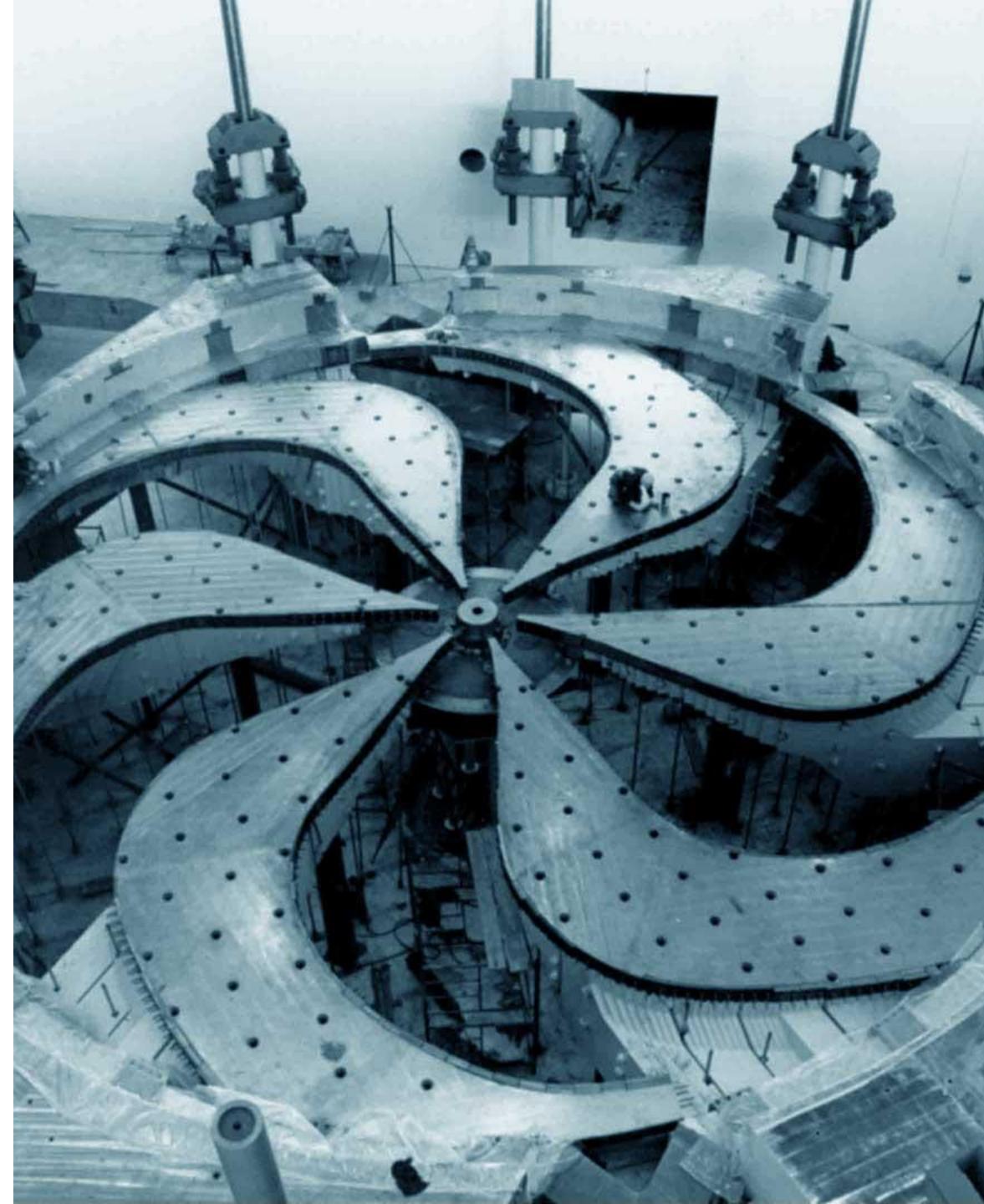
Collaborators: Mehdi Drissi, Mack Atkinson, Chien-Yeah Seng, Misha Gorchtein, Petr Navrátil

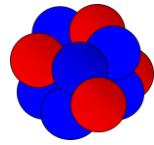


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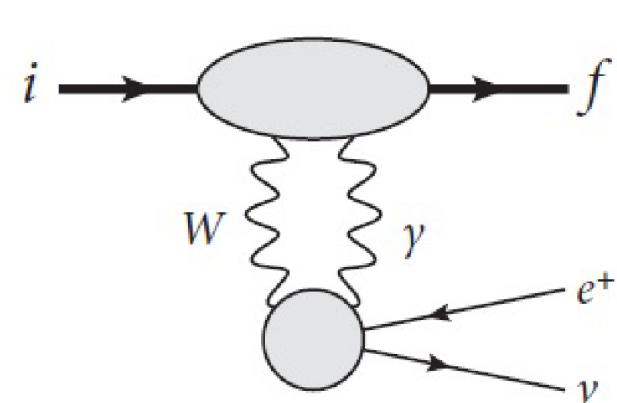
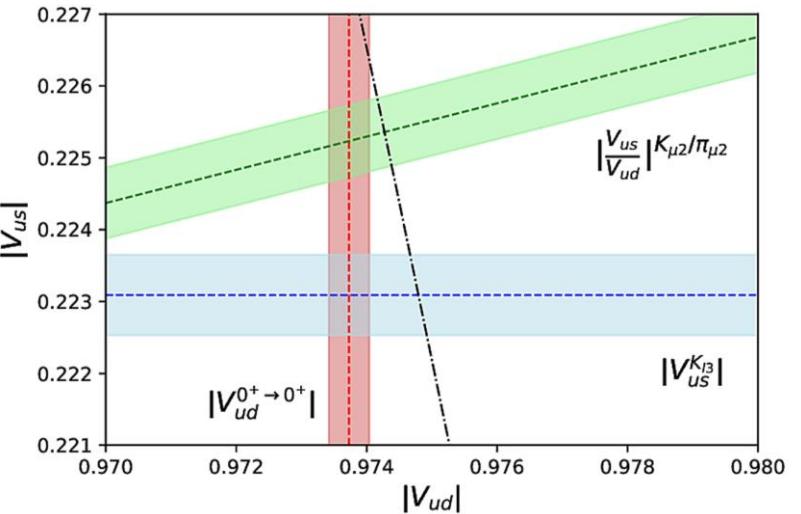




$SU(3)_C$

Standard Model

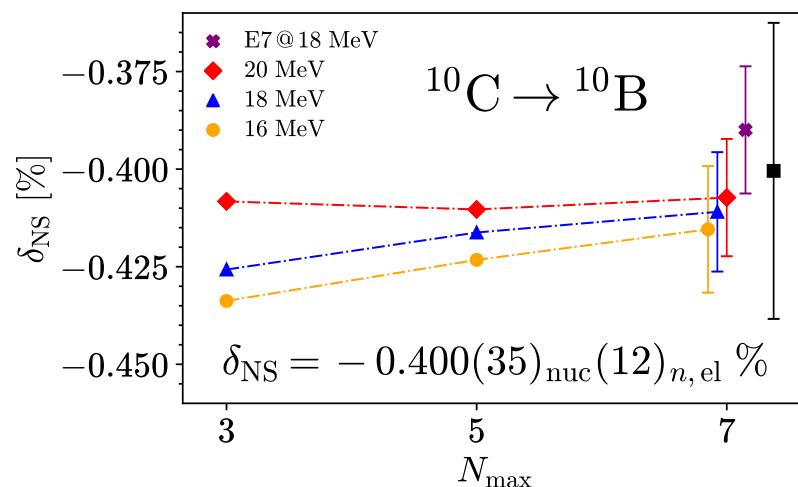
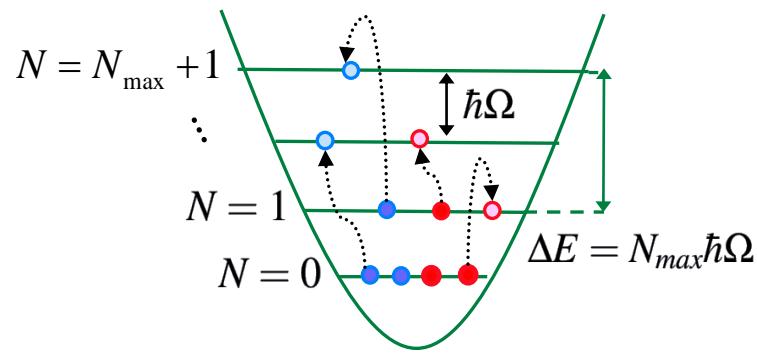
$SU(2)_L \times U(1)_Y$



Haxton et al. (2007)
Seng et al. (2023)

$$\mathcal{F}t = ft(1 + \delta'_R)(1 - \underline{\delta_C + \delta_{NS}})$$

Barrett et al. (2013)
Haydock (1974)



Chiral Effective Field Theory

Entem et al. (2017) Weinberg (1991)
Somà et al. (2020) Epelbaum (2009)

$$H |\Psi_A^{J^\pi T}\rangle = E^{J^\pi T} |\Psi_A^{J^\pi T}\rangle$$