

# JEDI Precursor Experiment

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# EDM value from experiments at COSY

Essential quantity to determine:

$$\alpha = \text{angle}(\text{WF}(\vec{B}), \hat{n}(\text{w/o EDM at WF}))$$

$$\sigma_{\alpha} = 0.001 \text{ corresponds to } \sigma_{\text{EDM}} = 3 \cdot 10^{-18} \text{ e}\cdot\text{cm}$$

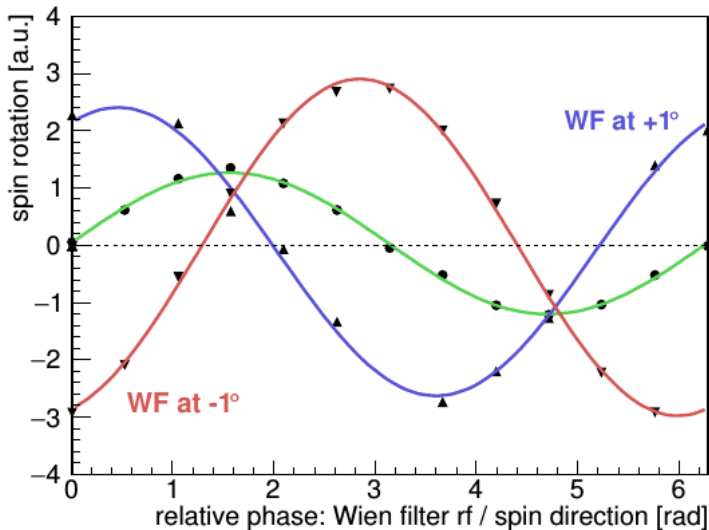
(JEDI int. note 2 & 3/2018)

With perfect alignment and orbit  $\alpha = 0$

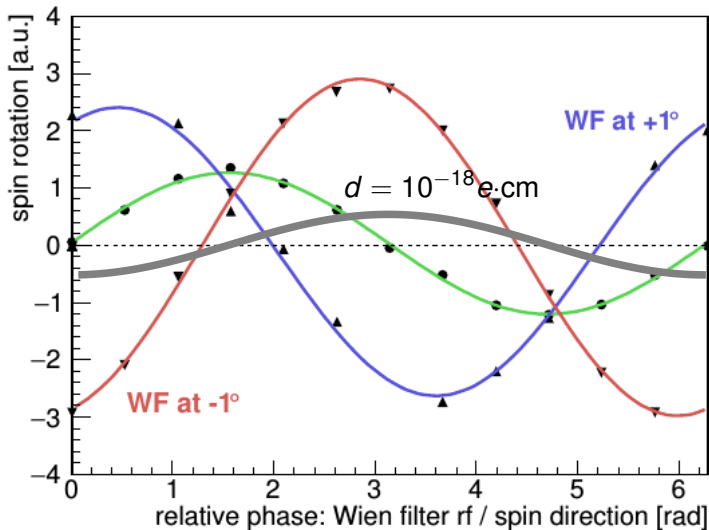
We need:

- simulations
- good orbit

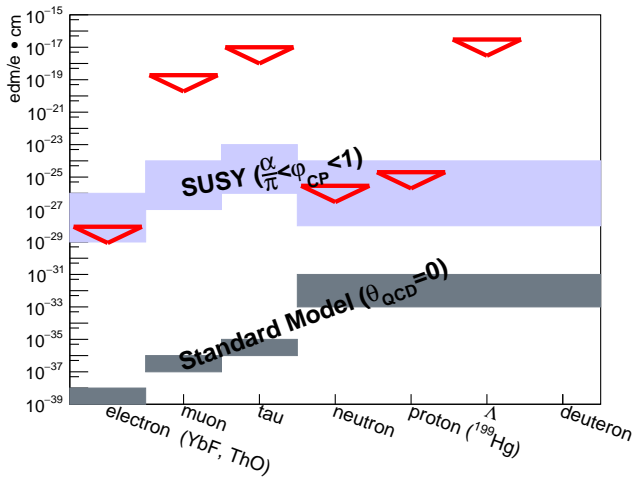
# Results from Nov. 2017 Beam Time



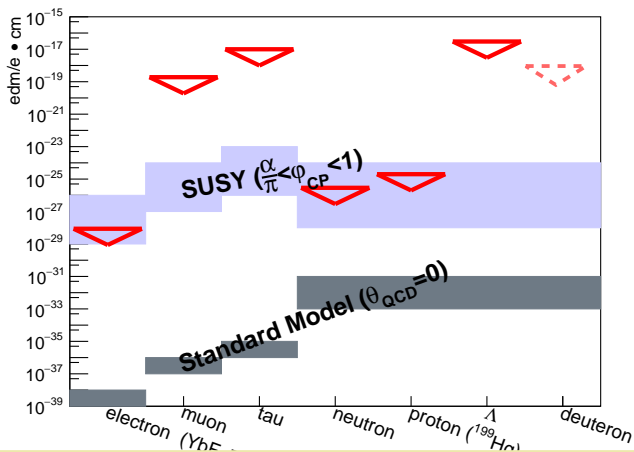
# Results from Nov. 2017 Beam Time



# EDM-Limits



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Goal:  
with 2018 data, publish EDM-result in 2019