



KaonLTMeeting

August 31st, 2023

Richard Trotta



Bad Runs...

All of 6p2 settings...bad TLT, bad beam on, etc. (note: not much data points to begin with)

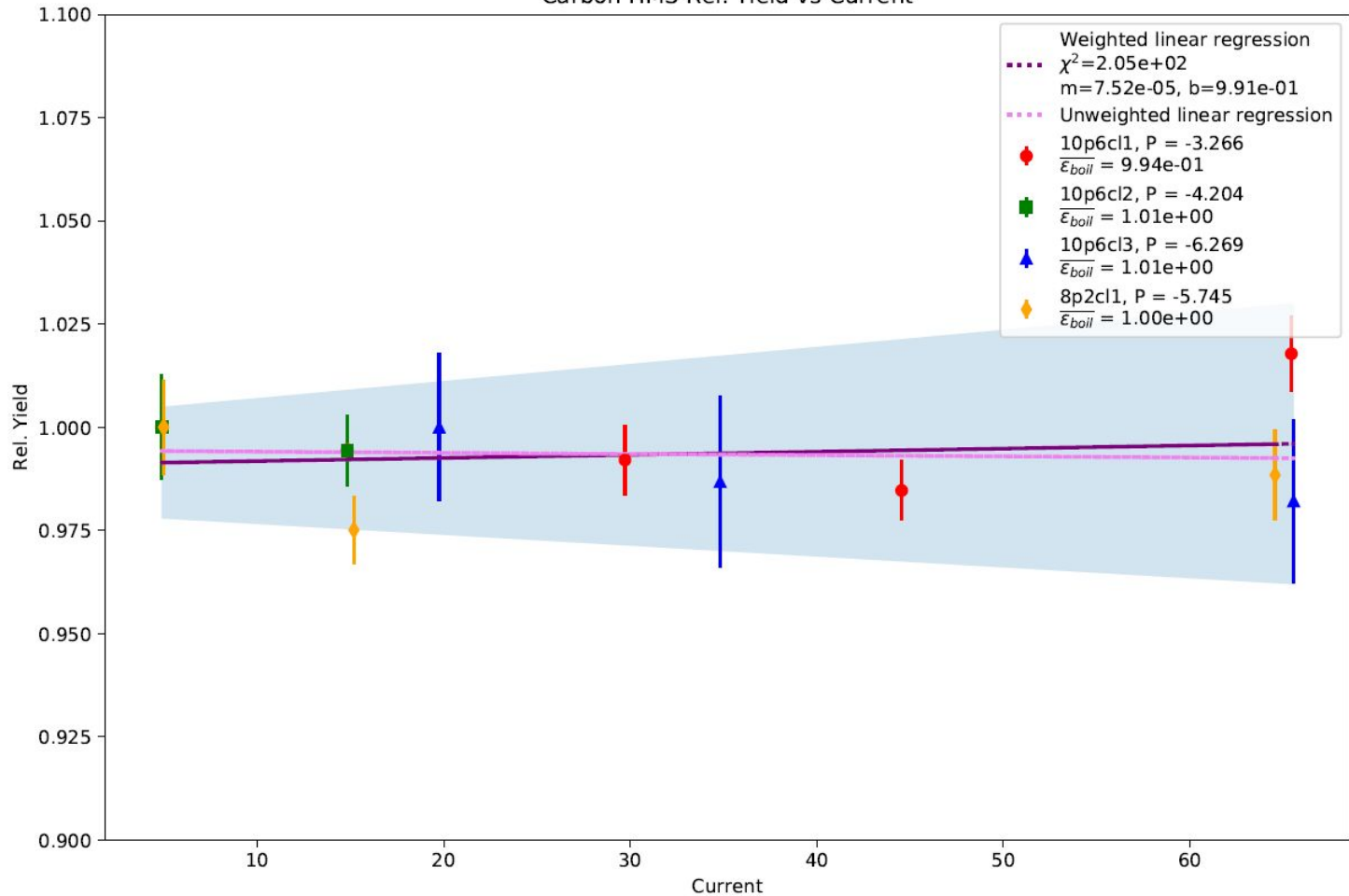
5301-> Carbon 10p6 I2, TLT<20%

5165-> LH2 10p6 I1, terrible scalers (EDTM set too high?)

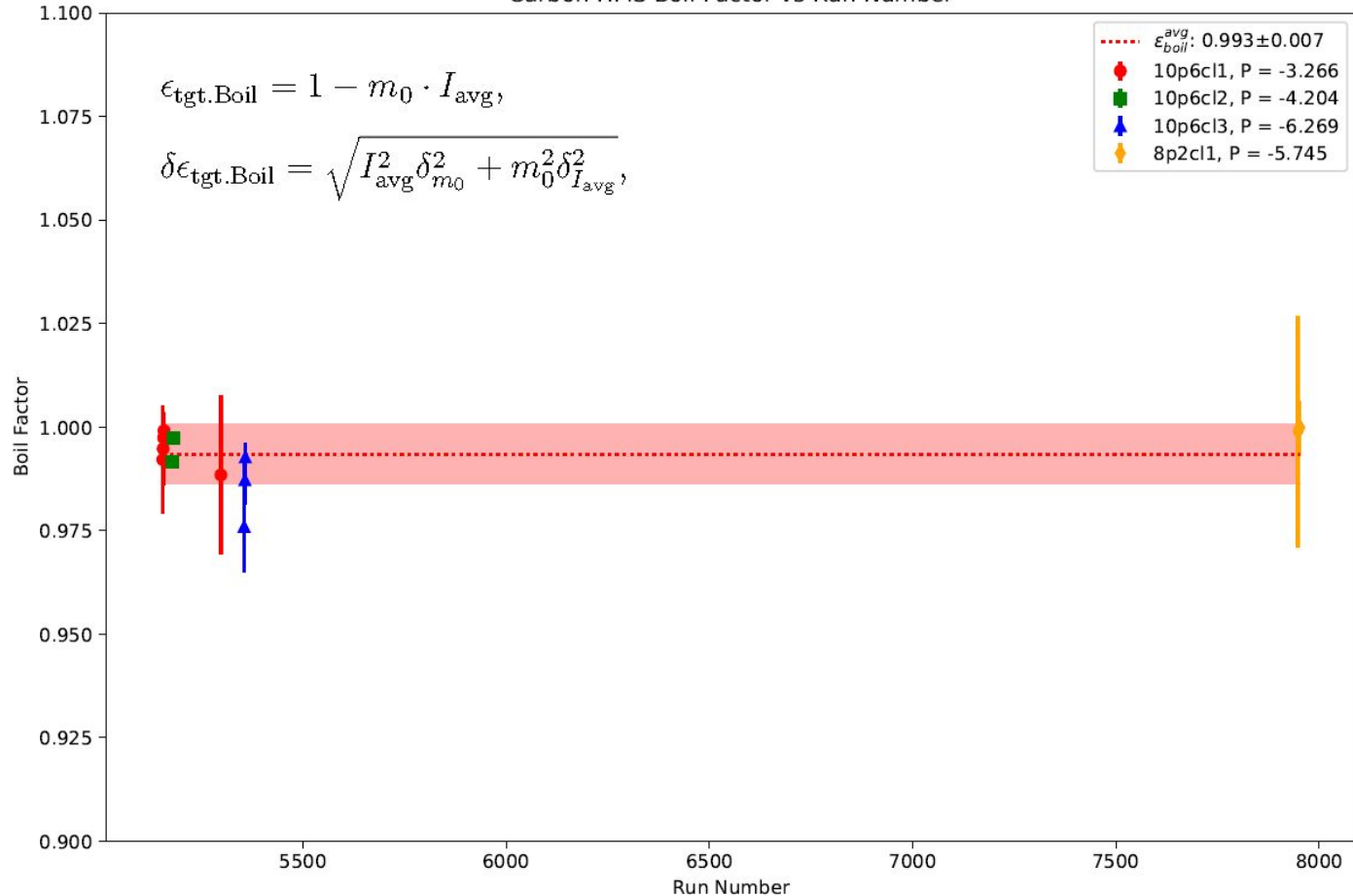
5303-> LH2 10p6 I2, beam on time < 4 minutes

5366-> LH2 10p6 I3, beam on time < 4 minutes

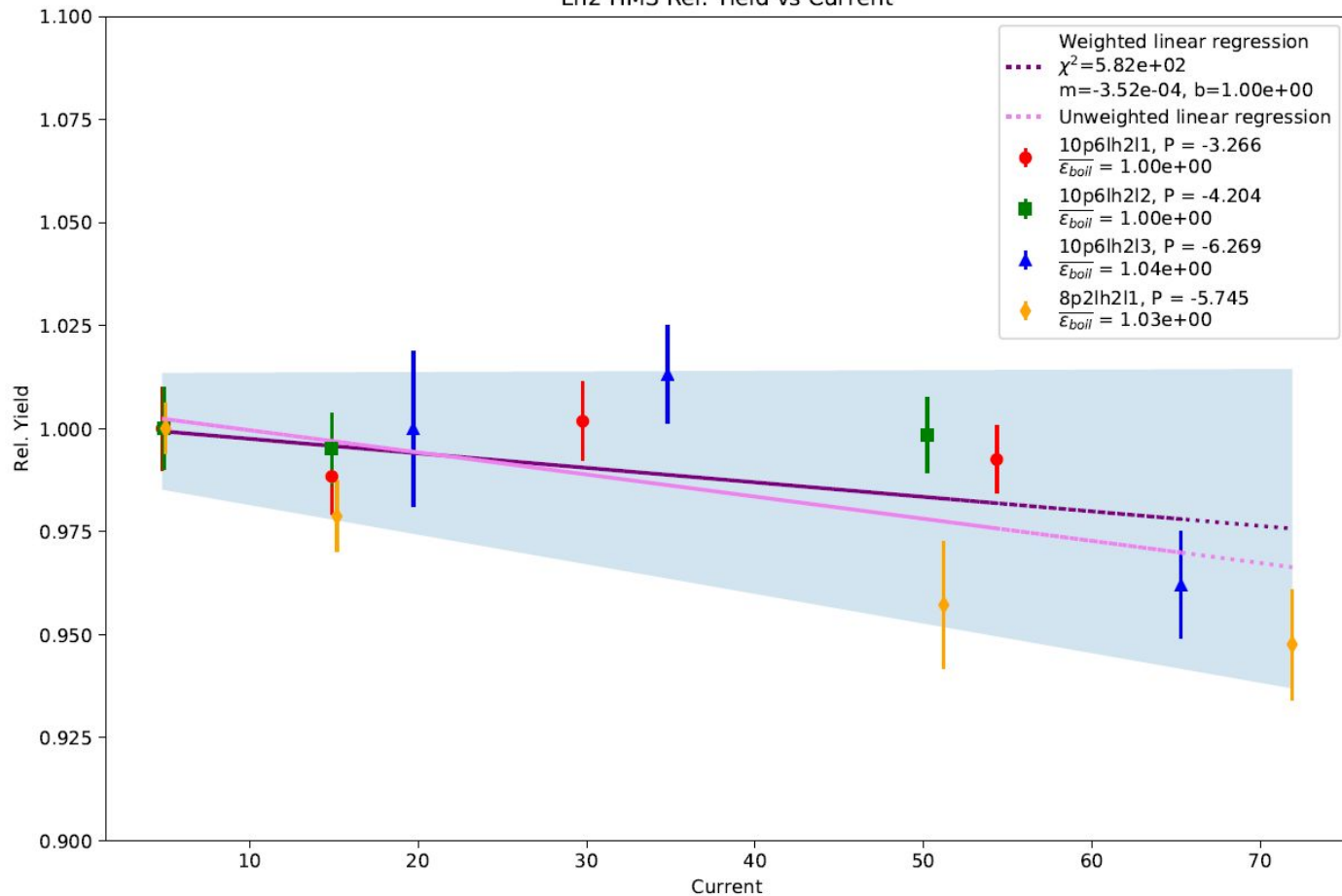
Carbon HMS Rel. Yield vs Current



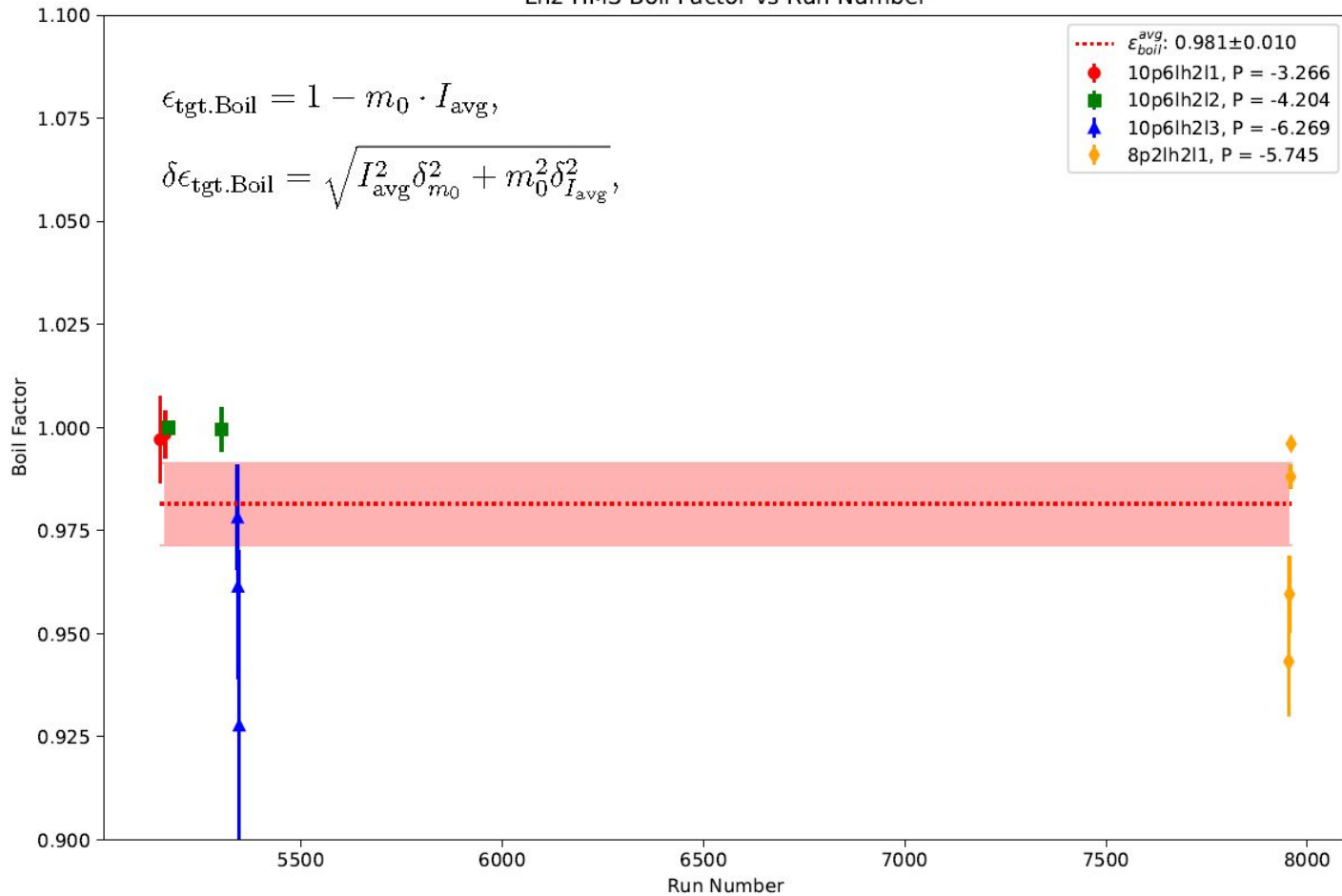
Carbon HMS Boil Factor vs Run Number




Lh2 HMS Rel. Yield vs Current



Lh2 HMS Boil Factor vs Run Number





Target	Analysis	$m_0 = m/Y_0$	δm_0	ϵ_{boil}	$\delta \epsilon_{\text{boil}}$
Carbon	Carlos	-0.0187%	+/-0.031%	~99.0%	+/-1.6%
Carbon	Richard	-0.0185%	+/-0.021%	~99.3%	*+/-0.7%
LH2	Carlos	-0.0634%	+/-0.006%	~96.7%	+/-0.3%
LH2	Richard	-0.0486%	+/-0.028%	~98.1%	*+/-1.0%

* Does not include current uncertainty