JLab Hypernuclear Meeting

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e' rate estimation (HRS-HKS @Hall A)

表 3.5 前回実験における散乱電子の計数率の見積もりと実測値の比較。 $N_{e'}(\exp)$ は実測値 [13]、 $N_{e'}(\sin)$ は見積もった値を表している。



Katayama, Master's thesis (Japanese):

https://wiki.jlab.org/tegwiki/images/6/69/Katayama_Master_Kyoto-Univ_20210312.pdf

Previously.... Sorry.

There are mistakes in the last rate estimations:

https://wiki.jlab.org/tegwiki/images/2/2c/JLabMeeting_20211007_gogami.pdf

- Mass number (# of target) difference was not properly applied.
- ⁵²Cr is not a good reference because the Collimator set was different from the standard one.

e' rate estimation (HES-HKS @Hall C)

Target	Beam curr.	e' rate estimated by the scaling
(/ (mg/cm²))	(/uA)	(/MHz)
$^{3}H(190) + AI_{_{162mg/cm2}}$		0.4 + 6.0
⁶ Li (100)		0.9
¹² C (100)	20	1.8
⁴⁰ Ca (100)		5.9
²⁰⁸ Pb (100)		19.1

e' rate estimation (HES-HKS @Hall C)

