## E12-11-112 runplan

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TABLE I: List of kinematics for left HRS and estimated beam time needed for the proposed experiment ( $z_{eff} = 14.0$ cm,  $^3$ He = 30 atm,  $^2$ H = 30 atm and  $^3$ H = 13 atm).

kin#	E	$\theta$	E'	$x_{range}$	$Q_{range}^2$	$\operatorname{Tg}$	I	psc	$R_{tot}$	$R_{phys}$	time	Total
	(GeV)	(deg)	(GeV)		$(\text{GeV/c})^2$		$(\mu A)$		(Hz)	(Hz)	(hrs)	(hrs)
1.0	4.4	17.0	3.710	0.90-1.41	1.38-1.48	$^3{ m He}$	25.0	1	3167	145	6.0	
	4.4	17.0	3.710			$^{3}\mathrm{H}$	25.0	1	2928	94	9.3	
	4.4	17.0	3.710			$^{2}\mathrm{H}$	25.0	1	3506	229	13.0	28.3
1.1	4.4	17.0	3.980	1.41-3.00	1.48-1.58	$^3{ m He}$	25.0	1	275	1.6	75.0	
	4.4	17.0	3.980			$^3\mathrm{H}$	25.0	1	265	1.0	113.6	188.6
2.0	4.4	19.0	3.535	0.88-1.26	1.64-1.75	$^3{ m He}$	25.0	1	1338	62	5.0	
	4.4	19.0	3.535			$^{3}\mathrm{H}$	25.0	1	1241	41	7.7	
	4.4	19.0	3.535			$^{2}\mathrm{H}$	25.0	1	1331	122	8.4	21.1
2.1	4.4	19.0	3.790	1.26 - 2.10	1.75 - 1.88	$^3{ m He}$	25.0	1	193	1.8	30.0	
	4.4	19.0	3.790			$^3\mathrm{H}$	25.0	1	184	1.2	45.5	
	4.4	19.0	3.790			$^{2}\mathrm{H}$	25.0	1	182	1.5	87.4	162.9
3.0	2.2	22.0	1.870	0.80-1.20	0.58-0.62	$^3{ m He}$	25.0	6	4563	217	3.5	
	2.2	22.0	1.870			$^{3}\mathrm{H}$	25.0	5	4998	160	4.8	
	2.2	22.0	1.870			$^2\mathrm{H}$	25.0	6	4954	315	7.7	15.9
4.0	2.2	26.2	1.770	0.86-1.17	0.78-0.82	$^3{ m He}$	25.0	2	3606	187	3.5	
	2.2	26.2	1.770			$^{3}\mathrm{H}$	25.0	2	3285	118	5.6	
	2.2	26.2	1.770			$^{2}\mathrm{H}$	25.0	2	3999	285	6.6	15.7
5.0	2.2	30.3	1.665	0.88-1.13	0.97-1.03	$^3{ m He}$	25.0	1	2303	114	3.5	
	2.2	30.3	1.665			$^3\mathrm{H}$	25.0	1	2097	73	5.5	
	2.2	30.3	1.665			$^2\mathrm{H}$	25.0	1	2603	187	5.9	14.9
		_							Tota	447.4 hours		
												$(pprox 19  ext{ days})$

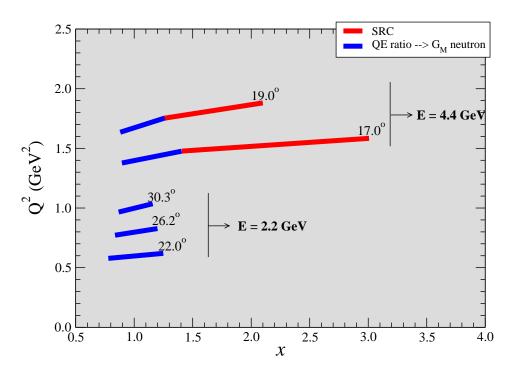


FIG. 1: Kinematics coverage

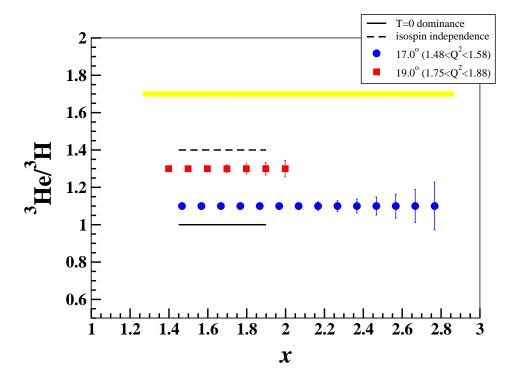


FIG. 2: projected statistical precision. Yellow band shows the systematic error.