

# Spread in Yields

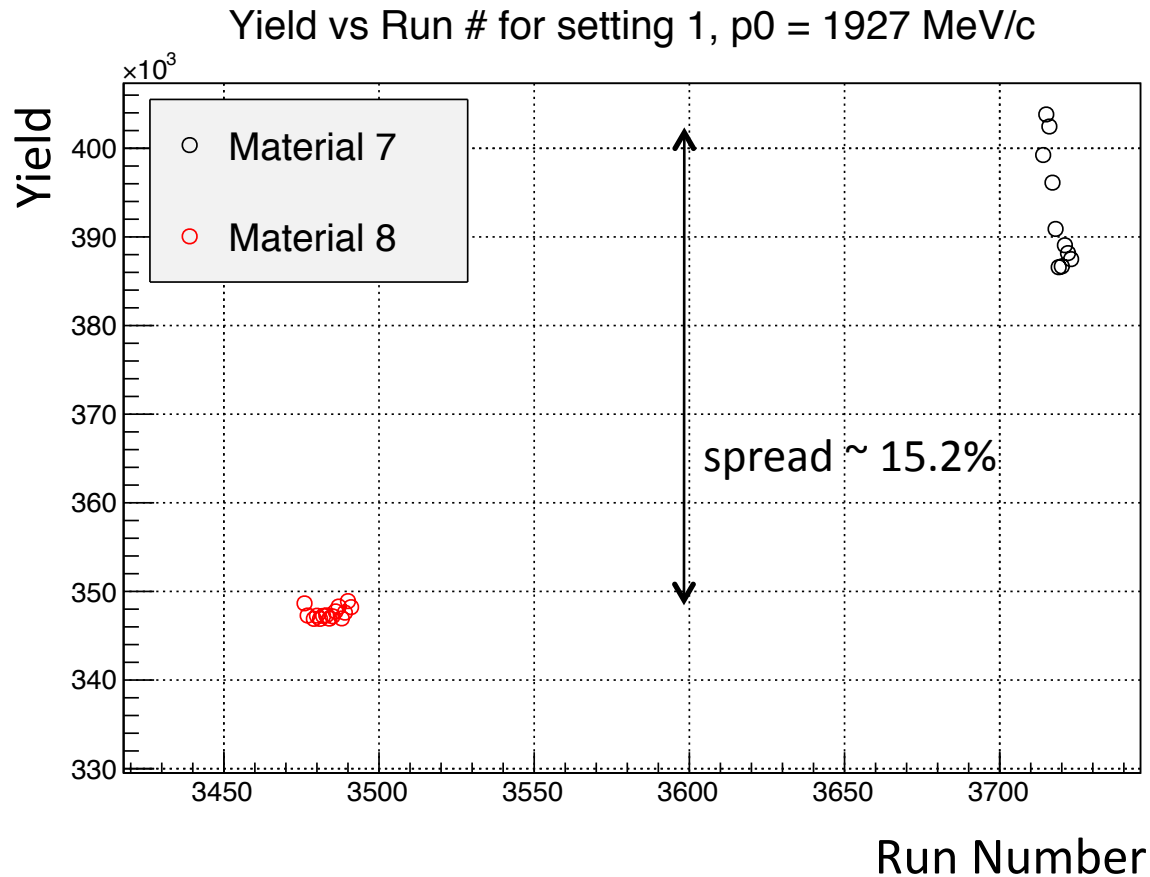
M. Cummings

4/23/14

# Spread in Yields

$$Y = \frac{psN}{Q\epsilon_{det}LT}$$

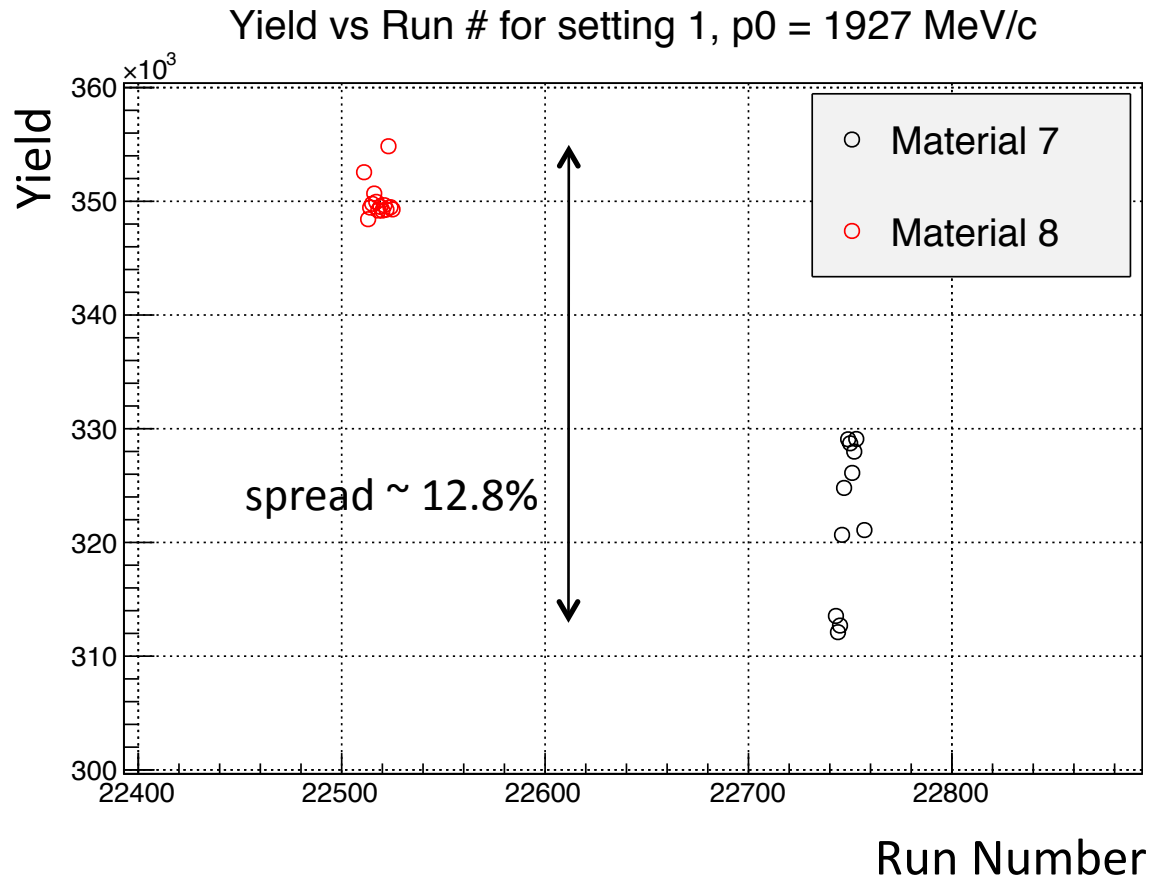
Setting 1 = 2.2 GeV, 2.5T, Transverse  
production runs - LHRS



# Spread in Yields

$$Y = \frac{psN}{Q\epsilon_{det}LT}$$

Setting 1 = 2.2 GeV, 2.5T, Transverse  
production runs - RHRS



# Setting 1

## LHRS

p0 (MeV/c)	Spread (%)	# Runs	All same mat?
541	59.36	2	y
582	0.20	4	y
626	0.48	3	y
673	0.36	4	y
724	1.98	4	y
778	0.49	4	y
837	0.21	5	y
900	0.65	4	y
968	1.52	3	y
1003	7.70	8	y
1041	0.96	4	y
1078	1.04	3	y
1119	3.29	3	n
1159	1.20	9	y
1203	1.85	7	y
1247	5.25	14	y
1294	0.94	7	y
1340	1.94	9	y
1391	1.30	8	y
1441	5.17	9	y
1496	0.56	5	y
1550	5.24	10	n
1608	2.42	10	y
1667	3.00	8	y
1729	0.79	7	y
1792	16.96	21	n
1859	0.00	1	y
1927	15.16	25	n
1940	1.14	12	y
2072	14.64	26	n
2228	26.75	24	n

## RHRS

p0 (MeV/c)	Spread (%)	# Runs	All same mat?
541	0.87	2	y
582	1.92	3	y
626	0.28	2	y
673	0.25	3	y
724	4.53	4	y
778	0.95	4	y
837	0.47	3	y
900	19.26	4	y
968	0.04	2	y
1041	1.36	3	y
1078	5.32	10	y
1119	4.28	4	n
1159	2.08	9	y
1203	0.85	6	y
1247	11.54	13	y
1294	0.55	4	y
1340	10.23	13	n
1391	1.25	5	y
1441	2.83	8	y
1496	3.24	9	y
1550	9.32	12	n
1608	6.32	10	y
1667	2.66	7	y
1729	61.66	7	y
1792	13.89	18	n
1859	19.06	4	y
1927	12.81	25	n
1940	0.93	7	y
2072	20.24	25	n
2228	3.99	4	y

# To Do

- Do this for all settings
- $f^* P_b^* P_t$  check with elastic form factors