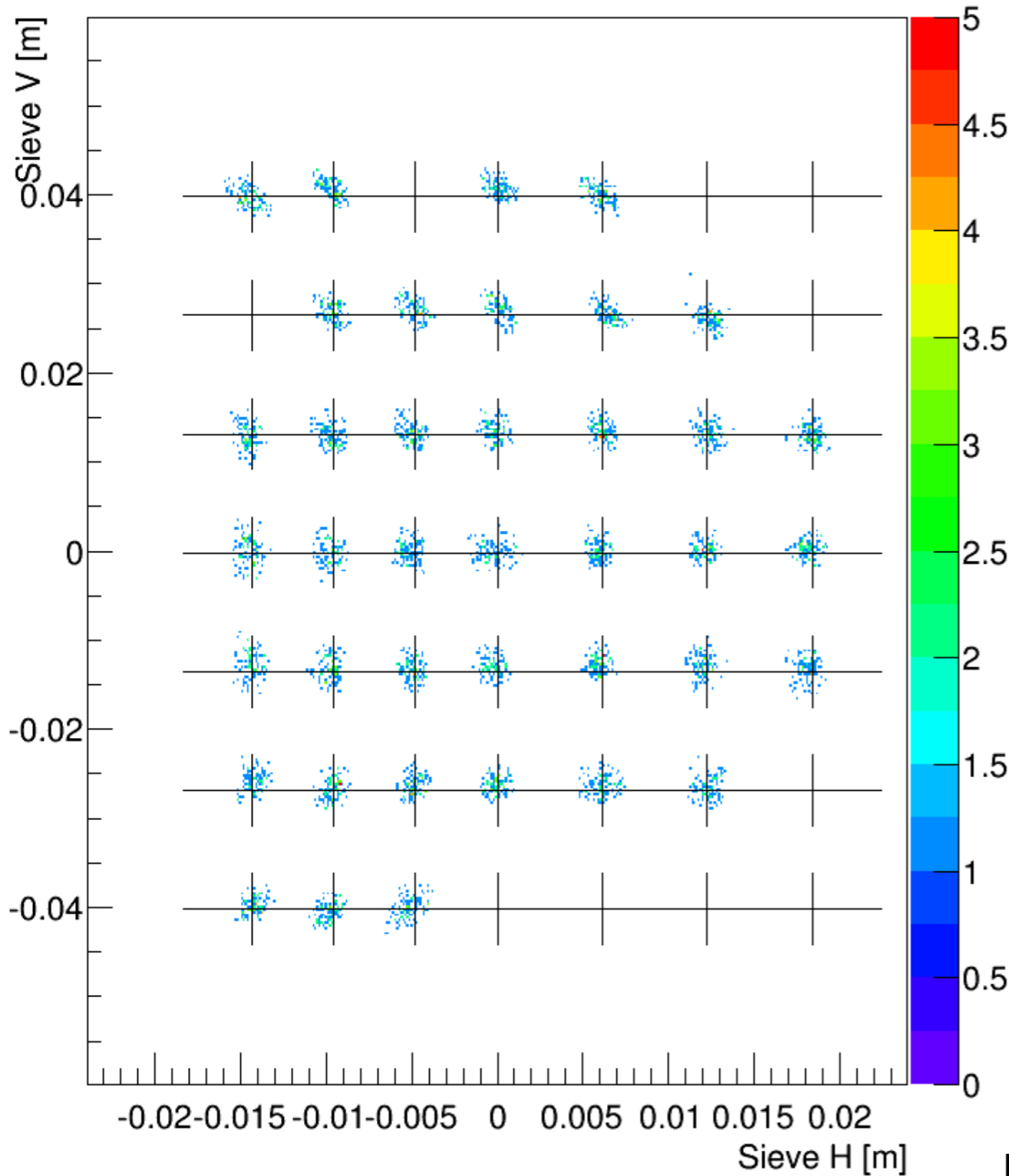
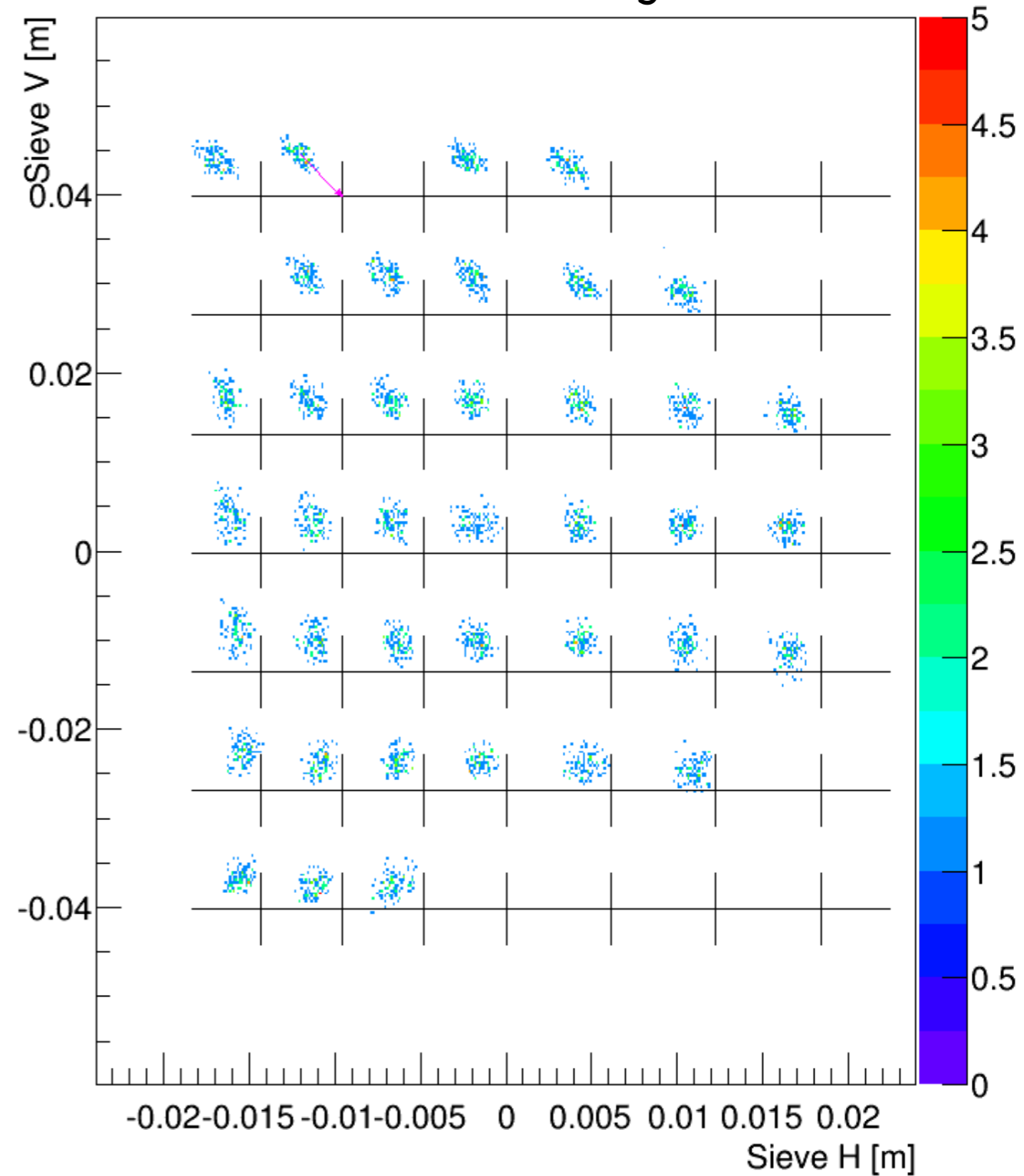


Offset Problem

2.254GeV 5.0T 0deg matrix
same data



2.254GeV 5.0T 0deg matrix
1.706GeV 2.5T 90deg data



First Order Matrix

$$\theta_{tg} = T_{0000} + T_{1000} x + T_{0100} \theta + T_{0010} y + T_{0001} \varphi$$

$$\varphi_{tg} = P_{0000} + P_{1000} x + P_{0100} \theta + P_{0010} y + P_{0001} \varphi$$

Septum	Field	T0000	T1000	T0100	T0010	T0001
484816	0T	3.119E-03	2.581E-02	-2.805E+00	-5.824E-02	8.464E-02
484816	2.5T	6.303E-03	2.561E-02	-2.680E+00	-5.120E-02	1.067E-01
400016	L	7.379E-03	2.269E-02	-2.620E+00	4.959E-02	6.070E-02
400016	2.5T	8.034E-03	2.098E-02	-2.657E+00	9.005E-02	3.869E-02
		P0000	P1000	P0100	P0010	P0001
484816	0T	-3.632E-03	2.235E-03	-2.085E-02	-8.448E-01	6.860E-01
484816	2.5T	1.649E-03	2.364E-03	-9.419E-03	-8.901E-01	7.511E-01
400016	L	-4.621E-03	4.567E-03	6.878E-02	-8.697E-01	7.019E-01
400016	2.5T	-7.208E-03	1.008E-03	8.706E-02	-8.791E-01	7.267E-01

Calibration Status

- Fitting result suggests that 1mm difference of beam x will give 1.327 mrad offset of phi
- Notice: the distance between sieve plate and target center is 800mm and $1\text{mm}/800\text{mm}\sim 1.25\text{mrad}$

