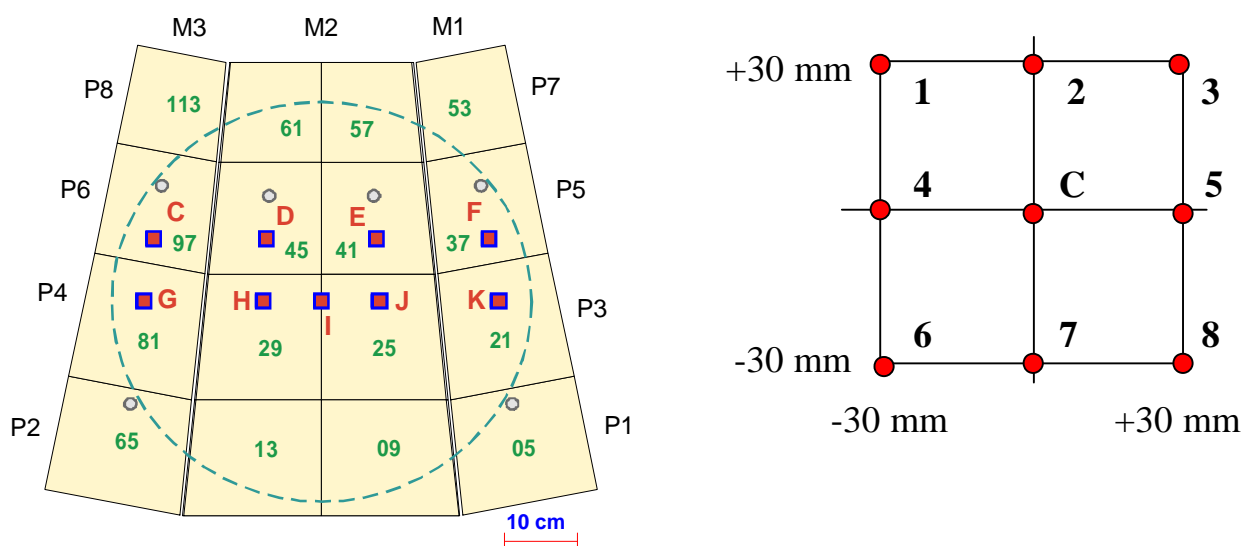


## Standard points and 8 surrounding points



## Electrons e+119 shape study

point	C	D	E	F	G	H	I	J	K
<b>cent</b>	12216	12201	12185	12174	12228	12243	12253	12263	12273
<b>1</b>	12221	12203	12189	12176	12222	12237	12249	12261	12268
<b>2</b>	12215	12202	12184	12175	12230	12238	12254	12262	12274
<b>3</b>	12209	12190	12183	12156	12232	12247	12256	12267	12275
<b>4</b>	12219	12205	12188	12177	12223	12236	12250	12260	12269
<b>5</b>	12208	12191	12182	12171	12233	12246	12257	12266	12276
<b>6</b>	12218	12206	12187	12179	12225	12235	12251	12259	12271
<b>7</b>	12217	12248	12186	12173	12227	12244	12252	12264	12272
<b>8</b>	12207	12194	12180	12172	12234	12245	12258	12265	12277

## Pions at standard points

<b>point</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>	<b>K</b>
<b>-10</b>	12326 13126	12325 13129	12335	13011	12328 13127	12329 13128	12331	12333	13012
<b>-20</b>	12345	12339	12336	13014	12346	12344	12338	12337	13013
<b>-30</b>	12348	13022	13018	13016	12347	13021	13020	13019	13015
<b>40</b>	12451	12449	12440	12443	12452	12448	12444	12441	12442
<b>50</b>	12416	12418	12412	12410	12415	12414	12413	12411	12408
<b>60</b>	12389	12394	12399	12406	12387	12397	12398	12405	12407
<b>80</b>	12384	12383	12378	12377	12385	12382	12381	12380	12376
<b>100</b>	12372	12318	12315	12374	12371	12317	12316	12312	12375
<b>120</b>	12290	12287	12281	12280	12289	12288	12284	12283	12278
<b>150</b>	12294	12298	12302	12359	12295	12296	12301	12303	12304
<b>180</b>	12369	12367	12365	12363	12370	12368	12366	12364	12361
<b>-120</b>	13156	13150	13142	13146	13155	13154	13149	13143	13147
<b>-150</b>	12750 13157	12745 13158	12751 13159	12752 13160	12748 13167	12746 13165	12744 13163	12756 13162	12755 13161
<b>-180</b>	12765 13181	12766 13180	12768 13179	12769 13178	12764 13169	12763 13170	12761 13172	12757 12758 13173	12772 13174
<b>-200</b>	12784	12783	12778	12777	12785	12782	12779	12775	12776

## Muons at standard points

<b>point</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>	<b>K</b>
<b>120</b>	---	12637	12633	12635	12641	12640	12636	12634	---
<b>-150</b>	12871 13182	12870 13187	12872 13194	12874 13204	12868 13184	12869 13186	12859 13188	12860 13211	12861 13212
<b>-180</b>	13233	13232	13220	13219	13234	13231	13226	13221	13213

## Electrons at standard points

point	C	D	E	F	G	H	I	J	K
<b>-6</b>	13000 13001	12994	13010	13009	13003	12996	13004	13005	13008
<b>-10</b>	12988	12991	12985	12982	12989	12990	12978	12979	12981
<b>-20</b>	12921	12922	12951	12974	12920	12918	12976	12953	12975
<b>-30</b>	13125	13122	13117	13120	13124	13123	13116	13119	13121
<b>30</b>	12565	12567	---	---	12564	12566	---	---	---
<b>40</b>	12562	12560	12553	12551	12563	12561	12555	12550	12552
<b>50</b>	12544	12541	12538	12537	12543	12542	12547	12549	12536
<b>60</b>	12497	12498	12503	12534	12496	12499	12501	12506	12535
<b>80</b>	12494	12493	12489	12490	12495	12492	12484	12485	12491
<b>100</b>	12464	12469	12477	12479	12463	12466	12481	12478	12480
<b>119</b>	12216	12201	12185	12174	12228	12243	12253	12263	12273
<b>-119</b>	12707	12704 12705	12691 12692	12690	12708	12706	12686 12687	12688	12689
<b>-148</b>	12713	12715	12735	12739	12711	12714	12740	12736	12737

## HV corrections in HEC $\pi$ -150

p \ ch	0	HV mod.0 BC1, BC2, BC3							
		1	2	3	4	5	6	7	8
<b>C</b>	13240	13257	13264	13283	13284	13291	13292	13309	13311
<b>D</b>	13247	13256	13266	13282	13285	13290	13293	13302	13312
<b>E</b>	13248	13255	13268	13281	13286	13289	13294	13300	13313
<b>F</b>	13249	13254	13270	13280	13287	13288	13295	13299	13315

## Electrons material scan

plate	Pt.	0	1	2	3	4	5	6	7	8
<b>-10</b>	E	13099	---	13101	---	13102	---	13103	---	13105
	D	13110		13109		13108		13107		13106
<b>-20</b>	E	12951	---	12950	---	12942	---	12940	---	12934
	D	12922	---	12930	---	12932	---	12924	---	12923
<b>60</b>	E	12531	12525	12518	12519	12520	12516	12521	12515	12524
<b>-119</b>	E	12697	---	---	---	12696	---	12695	---	12694
	D	12698	---	---	---	12702	---	12700 12701	---	12699
<b>-148</b>	D	12715	--	12722	--	12719	--	12718	--	12717
	D E	12729	--	12728	--	12727	--	12726	--	12725
	E	12735	--	12733	--	12732	--	12731	--	12730

## Electrons e-119 material and XY-scans

Plate	0	6	6	6	6	6	6
<b>X</b>	<b>79</b>	<b>79</b>	<b>-10</b>	<b>-20</b>	<b>-15</b>	<b>-13</b>	<b>-13</b>
<b>Y</b>	<b>88</b>	<b>88</b>	<b>88</b>	<b>88</b>	<b>88</b>	<b>88</b>	<b>88</b>
<b>Run</b>	13366	13367	13368	13369	13372	13373	13374

Plate	6	6	6	8	6	4	2
<b>X</b>	<b>-13</b>	<b>-13</b>	<b>-13</b>	<b>79</b>	<b>79</b>	<b>79</b>	<b>79</b>
<b>Y</b>	<b>78</b>	<b>81</b>	<b>120</b>	<b>88</b>	<b>88</b>	<b>88</b>	<b>88</b>
<b>Run</b>	17776	13379	13380	13381 13382	13383	13384	13385

## Pions material scan (point E)

plate	0	2	4	6	8
<b>150</b>	12630	--	--	--	12627

## Vertical scan

Y	$\pi$ -30 x+60	$\pi$ -200 x+60	Y<0	Y>0	$\mu$ -150 x +70	
-180	13041	---	-180	180	13328 13329	---
-160	13040	---	-170	170	13330 13331	---
-140	13039	---	-160	160	13332	---
-120	13038	---	-150	150	13333	---
-100	13036	---	-140	140	13334	---
-80	13034	12827	-130	130	13344	---
-60	13033	12826	-120	120	13346	---
-40	13032	12825	-110	110	---	---
-20	13031	12823	-100	100	13348	13405
0	13029 13030	12822	-90	90	---	---
20	13042	12849	-80	80	13360	13404
40	13044	12850	-70	70	---	---
60	13045	12851	-60	60	13363	13396 13397
80	13047	12852	-50	50	---	---
100	13048	12853	-40	40	13386	13395
120	13050	12856	-30	30	---	---
140	13051	12855	-20	20	13387	13389
160	13053	---	-10	10	---	---
180	13054	---	0	0	13388	

## Horizontal scan at $y=0$

<b>X</b>	<b><math>\pi</math> -30</b>	<b><math>\pi</math> +150</b>	<b><math>\pi</math> -200</b>	<b>X&lt;0</b>	<b>X&gt;0</b>	<b><math>\mu</math> +120</b>		<b><math>\mu</math> -150</b>	
<b>-260</b>	13091	12619	12786	<b>-260</b>	<b>260</b>	---	---	---	12876
<b>-240</b>	13089	12618	12787	<b>-250</b>	<b>250</b>	---	---	---	---
<b>-220</b>	13088	12617	12788	<b>-240</b>	<b>240</b>	---	---	---	12883
<b>-200</b>	13087	12616	12789	<b>-230</b>	<b>230</b>	---	---	---	---
<b>-180</b>	13086	12610	12790	<b>-220</b>	<b>220</b>	---	---	---	12891
<b>-160</b>	13085	12609	12791	<b>-210</b>	<b>210</b>	---	---	---	---
<b>-140</b>	13084	12606	12793	<b>-200</b>	<b>200</b>	---	---	---	12895
<b>-120</b>	13083	12605	12794	<b>-190</b>	<b>190</b>	---	---	---	---
<b>-100</b>	13082	12604	12795	<b>-180</b>	<b>180</b>	---	---	---	12900
<b>-80</b>	13081	12603	12796	<b>-170</b>	<b>170</b>	---	---	---	12904
<b>-60</b>	13080	12598	12797	<b>-160</b>	<b>160</b>	---	---	---	12905
<b>-40</b>	13079	12597	12800	<b>-150</b>	<b>150</b>	---	---	---	12911
<b>-20</b>	13078	12596	12802	<b>-140</b>	<b>140</b>	---	---	---	---
<b>0</b>	13077	12594	12803	<b>-130</b>	<b>130</b>	---	---	---	---
<b>20</b>	13076	12593	12804	<b>-120</b>	<b>120</b>	---	---	---	---
<b>40</b>	13075	12590	12805	<b>-110</b>	<b>110</b>	---	---	---	---
<b>60</b>	13056	12589	12806	<b>-100</b>	<b>100</b>	---	---	---	---
<b>80</b>	13057	12587	12807	<b>-90</b>	<b>90</b>	---	---	---	---
<b>100</b>	13058	12586	12808	<b>-80</b>	<b>80</b>	12642	12634	---	---
<b>120</b>	13059	12585	12809	<b>-70</b>	<b>70</b>	12643	---	---	---
<b>140</b>	13063	12582	12810	<b>-60</b>	<b>60</b>	12644	---	---	---
<b>160</b>	13064	12581	12815	<b>-50</b>	<b>50</b>	12650	---	---	---
<b>180</b>	13065	12579	12814	<b>-40</b>	<b>40</b>	12651	---	---	---
<b>200</b>	13066	12578	12816	<b>-30</b>	<b>30</b>	12656	12662	---	---
<b>220</b>	13068	12576	12817	<b>-20</b>	<b>20</b>	12657	12661	---	---
<b>240</b>	13069 13070	12575	12818	<b>-10</b>	<b>10</b>	12658	12659	---	---
<b>260</b>	13071	12574	12821	<b>0</b>	<b>0</b>	12636		---	

## Stability runs. Pions

Meas#	$\pi$ +150		$\pi$ -150	
	D	E	D	E
1	12298	12302	12745	12751
2	12396	12400	13138	13139
3	12436	12439	13158	13159
4	12540	12539	13247	13248
5	--	12630		
6	13247	13248		

## Stability runs. Electrons

Meas#	e +119		e -119	
	D	E	D	E
1	12201	12185	12698	12697
2	12437	12438	12704 12705	12691 12692
3			13153	13140 13141
4				13195 13196





## Comments

Standard readout: EMEC: 7 TS, HEC: 16TS

Up to run 13102:            bad TDC data  
Runs 13102-13115:        TDC ch.1 == TDC ch.0  
from run 13116:           TDC OK

HV short 9.09 9:30 in HEC Mod.2 (CF27) LS2, EST2  
HV channel M0BC2CH6 disconnected starting from run  
#13061

HV scan runs without EMEC readout:

13247, 13248, 13255, 13256, 13257, 13266, 13268, 13291, 13292, 13293, 13294,  
13311, 13312, 13313, 13315