

Some consideration on the space
charge density (SCD) at the cathode
for the PITZ optimized setups
(S \leftrightarrow M)

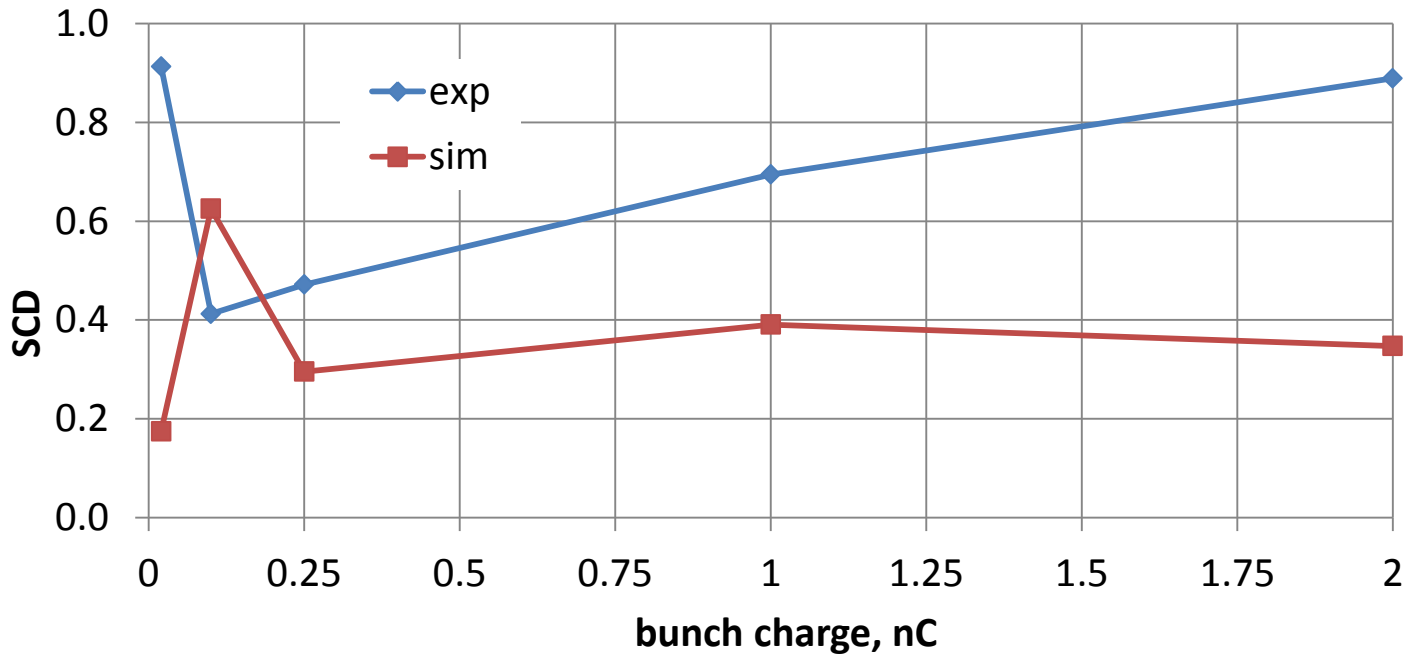
M.Krasilnikov, PPS 26.01.2012

Space charge density at the cathode

Q	exp		sim		exp/sim
	BSA	SCD	BSA	SCD	
1	1.2	0.69	1.6	0.39	1.78
2	1.5	0.89	2.4	0.35	2.56
		1.3		0.9	

Space charge density at the cathode

Q	exp		sim		exp/sim
	BSA	SCD	BSA	SCD	
0.02	0.148	0.91	0.34	0.17	5.23
0.1	0.49	0.41	0.4	0.63	0.66
0.25	0.73	0.47	0.92	0.30	1.60
1	1.20	0.69	1.6	0.39	1.78
2	1.50	0.89	2.4	0.35	2.56



Space charge density at the cathode

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	BSA	SCD	BSA	SCD	
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0.1	0.49	0.41	0.57	0.31	1.34
0.25	0.73	0.47	0.92	0.30	1.60
1	1.20	0.69	1.6	0.39	1.78
2	1.50	0.89	2.4	0.35	2.56

