

Average number of photoelectrons per slot:

- Position 4, run 18, average over both peaks

- Spreadsheet prediction for slot 3 & 4: Npe ~ 1.49 & 1.46 (using Jose's toy MC geometry factors, and a relative efficiency to Photonis PMT as determined in the scanning setup).

Jose:

I calculated the number of photons which are "geometrically" accepted in the prototype. I generated HALF of a ring from position 1 uniformly with theta=47deg. There is, of course, no accounting for detector efficiencies and total internal reflection losses or any physics, this is pure geometry.

Out of 100,000 Direct rays generated:

51100 make it to the detector plane defined by the edges of slot1 and slot7.

and here is the break down in slots: slot ndetected

5 5538

6 4644

Out of 100,000 Indirect rays generated:

51101 make it to the detector plane defined by the edges of slot1 and slot7, and here is the break down in slots: slot ndetected

0 5789 1 5332

1 5332 2 5378

2 *3 5 7 5 8*

4 5734

5 5738

6 4669

Use Jose'a geometrical factor for SLOT 4

Verify that Npe_expected & Npe_measured are consistent:

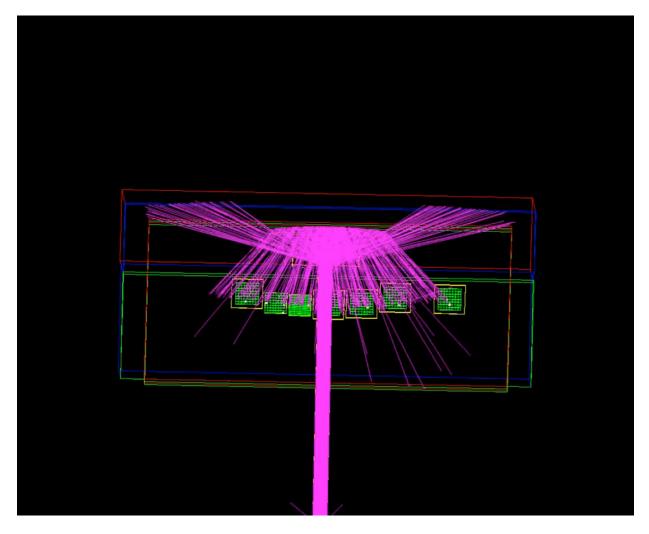
				The correction is	only small	due to tiny :	nismatches	of refraction index of	f cookie and oil (BaBar DI	RC had 0.6j					
					Estimate t				of the timing distribution (recoils from the MCI	P top swface)				
7*ABS(kz/ky) = N	dx*3.5*A	BS(kz/kx)				Keep for no		as the BaBar DIRC							
							Finite min	or size (the factor is							
									ta (KamLand) - no purificat:	ion (use it as it came)					
		-						And the second	DIRC'S FINAL EFF.	secolar balance	Second second	and the second second	and the second	DIRC'S DEGRADED EFF.	
	R-mirror		PM packing fraction			Detection		Tr-mineral oil	Efficiency #2	Integrate No	Determine	Cherenkov angle		Efficiency #2	Weizmann Uncoated PC
dl length) (Phi~0)		effective 0.6942	(future MCP-PMT)		arrivals		512e	(0.5 m long)		(a more proper way)	average CHTh	(Beta = 1)	(a most proper way)	C*E*H*M*P*Q*S*T*V	K-Cs-Sb (refl.)
0.728420093 0.770515292	0.78		0.02791 0.02791		0.8		0.9	0	0	0	0	49.84167412 49.45873048	0	0	
0.805387709	0.82		0.02791		0.8		0.9	0	0	0			0	0	
0.834288802	0.84		0.02791		0.8		0.9	0	0	0			0	0	
0.858288423	0.86		0.02791		0.8		0.9	0	0	0	0		0	0	
0.87827725		0.83411	0.02791		0.8		0.9	0		0			0	0	0
0.894985674		0.84105	0.02791		0.8		0.9	0		0			0	0	
0.909007712		0.84801	0.02791		0.8		0.9	0	0	0			0	0	
0.920824538		0.86201	0.02791		0.8		0.9	0	0	0			0	0	
0.930825458		0.86905	0.02791		0.8		0.9	0.00186					2.02618E-09	4.10541E-05	
0.939325649 0.946580752	0.92	0.8832	0.02791		0.8		0.9	0.019192 0.324022					7.10053E-07 1.80495E-05	0.0008222 0.020215408	(
0.940580752		0.88889	0.02791		0.8		0.9	0.324022	0.000280782				1.80495E-05 5.9343E-05	0.020215408	
0.958149078		0.89174	0.02791		0.8		0.9	0.77020213					0.000101569	0.077169098	
0.962770858		0.89459	0.02791		0.8		0.9	0.842637	0.001614686				0.000139716	0.109709756	
0.966778206		0.89745	0.02791		0.8		0.9	0.85657	0.001932684				0.000170018	0.130111902	
0.970265344	0.932	0.90031	0.02791		0.8	0.9	0.9	0.883299	0.002302923		0.738573834		0.000191357	0.153629344	
0.973310331		0.90318	0.02791		0.8		0.9	0.89982			0.84259125		0.000211951	0.176209953	
0.975978091		0.90461	0.02791		0.8		0.9	0.924507	0.00305913				0.000230983	0.20126042	
0.978322833		0.90605	0.02791		0.8		0.9	0.93		0.000269554			0.000246719	0.222547881	
0.980389993		0.90748	0.02791		0.8		0.9	0.94		0.000278337	1.099430013		0.000254406	0.236630995	
0.982217801 0.983838535		0.90748	0.02791 0.02791		0.8		0.9	0.96		0.000277155			0.000253001 0.000245861	0.243153308	
0.985279551		0.909921	0.02791		0.8		0.9	0.97					0.000237289	0.248973084	
0.98656411		0.91036	0.02791		0.8		0.9	0.90					0.00022875	0.251027075	(
0.98771206	0.94		0.02791		0.8		0.9	0.997536591			1.077778133		0.000220144	0.252121357	
0.988740391	0.94		0.02791		0.8		0.9	0.997880183					0.000203869	0.234903984	
0.98966369	0.938	0.90892	0.02791	0.95	0.8	0.9	0.9	0.997992205	0.003342612			46.92557371	0.000180904	0.217402455	
0.990494523		0.90748	0.02791		0.8		0.9	0.997885132					0.000152476	0.181556148	
0.991243743		0.90605	0.02791		0.8		0.9	0.997571464					0.000122975	0.154612771	
0.991920754		0.90461	0.02791		0.8		0.9	0.997063719					0.000102077	0.136667225	
0.992533723		0.89745	0.02791		0.8		0.9	0.996374433					8.55389E-05	0.118660794	
0.993089763		0.89459 0.89174	0.02791		0.8		0.9	0.995516151 0.994501428					6.72712E-05	0.091454101 0.082480525	
0.993595088 0.994055135			0.02791 0.02791		0.8		0.9	0.993342822	0.00124555 0.000968735				5.33849E-05 4.32435E-05	0.064295799	
0.994474675		0.88746	0.02791		0.8		0.9	0.992052894	0.000830432				3.38406E-05	0.055242388	0.
0.994857905	0.92		0.02791		0.8		0.9	0.990644203					2.75714E-05	0.046149765	
0.995208525		0.87611	0.02791		0.8		0.9	0.989129303		2.40407E-05			2.16778E-05	0.037012778	
0.995529803	0.91	0.86905	0.02791	0.95	0.8	0.9	0.9	0.987520743	0.000409798	1.79569E-05	0.103251995	46.7264818	1.61845E-05	0.027828187	
0.995824631	0.905	0.86201	0.02791	0.95	0.8		0.9	0.985831062	0.000271657	1.23247E-05	0.072099686	46.7132974	1.11033E-05	0.018595455	
0.996095576	0.9		0.02791		0.8		0.9	0.984072792					7.46565E-06	0.013975954	
0.99634492		0.84801	0.02791		0.8		0.9	0.982258449	0.000134184				5.12542E-06	0.009333884	
0.996574693		0.84105	0.02791		0.8		0.9	0.980400538	6.66442E-05				2.95713E-06	0.004673299	
0.996786707		0.83411	0.02791		0.8		0.9	0.978511548	2.64661E-05			46.66591286	1.327E-06	0.001870929	
0.996982584	0.88		0.02791 0.02791		0.8		0.9	0.976603956	1.31302E-05		0.003859472		5.4649E-07 1.75581E-07	0.000935735	
0.997163772	0.87	0.81345	0.02791	0.95	0.8	0.9	0.9	0.97409022			0.001209965	40.04494058			
				Tester fort	25			We (PULLE)	Approximately: 0.695254119	More exact:			Most exact:	45 71050140	
				Fudge factor =	1			No (FINAL)		1.601079423				45.71863143	
								L (cm)	1.7					1.7	
								n (quartz)	1.47034425					1.474	
								CHTh (Beta=1)	47.15101174	0.822940401		47.36787177		47.2827114	
								Npe	0.635225251	1.462840781			1.461180134	41.94934777	6
								Average photon			4191.728781	L		<u>_</u>	
								Ratio = Eff-starting	/ Eff-final	0.011921562				_	

Joe's MC hit simulation:

Joe ran with much loser cuts on the directional cosine of propagated photons in Geant and now I see that a) we get hits outside the area of slot 7 and

b) a significant number of photons miss the mirror.

I am attaching a screenshot that shows the detection plane in a top view. This may mean that Jose's 49% loss is real.



- This shows that some photons miss the mirror.

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natsu MaPMT p
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 | dunode, b) packing fraction | n of PMTs $\rightarrow 0.75$
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No (FINAL)
 | Approximately:
12.671770 | More exact:
30.6876429
 | | 40.04494038 | 3.54849E-00
Most exact:
 | 41.36282568 | |
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 | | L (cm)
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 | | n (quartz)
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 | 47.1510117-
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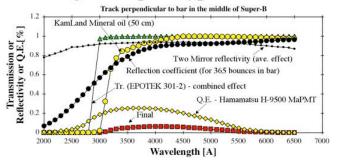
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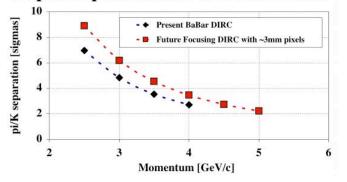
Expected No calculation of the prototype (middle of BaBar acceptance):

Expected final performance at incidence angle of 90°

Focusing DIRC prototype bandwidth:



Expected performance of a final device:



- Prototype's Npe_measured and Npe_expected are consistent within ~20%.
- Hamamatsu H-9500 MaPMTs: We expect No ~ 31 cm⁻¹, which in turn gives Npe ~ 28, and somewhat better performance in pi/K separation than the present BaBar DIRC.
- Burle-Photonis MCP-PMTs: We expect No ~ 22 cm⁻¹ and Npe ~ 20 for B = 0kG.

Comments on what goes on into these statements:

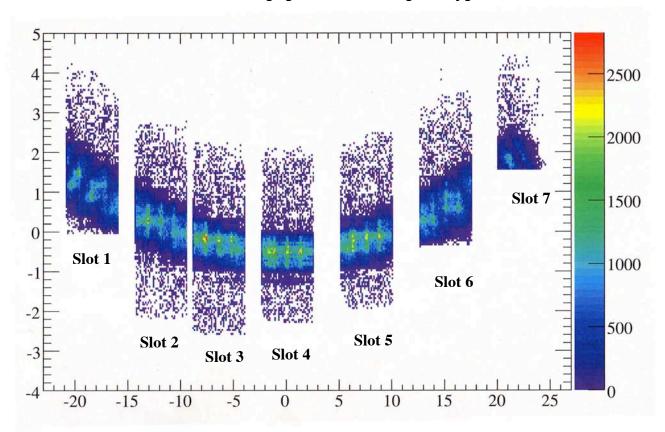
1. To get N_o for the Focusing DIRC with the Hamamatsu H-9500, I assume:

50% rel eff. to Photonis PMT & 95% packing eff. & 90% detection eff. & everything else

2. To get N_0 for the Focusing DIRC with the Burle MCP-PMT, I assume:

50% rel eff. to Photonis PMT & 80% packing eff. & 80% in time photons & 90% det. eff. & etc.

3. To get the pi/K separation, assume: $\sigma_{\text{TRACK}} \sim \text{sqrt}((6/\text{SQRT}(28))^2 + 1.5^2) = 1.88 \text{ mrads}.$



Joe's MC hit simulation of slot 7 population in the prototype: