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Fitter Comparison with Andi's Single Particles

BackTracking OFF & iPatRec OFF & xKalman OFF

1/abs(trk_Mc_qOverPt)>1900.0 for 2GeV events and 1/abs(trk_Mc_qOverPt)>9900.0 for 10GeV events

/castor/cern.ch/user/s/salzburg/SingleElectrons/ConstPtSmeared/13.0.10/ATLAS-CSC-02-00-00/digit/SingleElectrons_
/castor/cern.ch/user/s/salzburg/SinglePions/ConstPtSmeared/13.0.10/ATLAS-CSC-02-00-00/digit/SinglePiPlus_digit_
/castor/cern.ch/user/s/salzburg/SingleMuons/ConstPtSmeared/13.0.10/ATLAS-CSC-02-00-00/digit/SingleMuons_digi

Summary tables include number of entries for (q/p)rec/(q/p)gen and number of tracks without TRT extensions (Silicon only)

Pt = 2GeV Electrons (10k events) 15.0.0

Eta range	Fitter	Total	+/- 50%	+/- 20%	+/- 10%	Si only
eta<0.8	Kalman	2442	2341	2018	1702	601
	DNA	2460	2365	2065	1812	414
	Global Chi2	2466	2358	1975	1503	407
1.6>eta>0.8	Kalman	2379	2191	1678	1198	928
	DNA	2416	2254	1785	1368	690
	Global Chi2	2421	2203	1548	995	704
eta>1.6	Kalman	2452	1993	1090	627	1594
	DNA	2468	2030	1168	692	1542
	Global Chi2	2476	1983	1056	604	1537

Pt = 2GeV Electrons (10k events) 14.2 devval rel_3 (29 May)

Eta range	Fitter	Total	+/- 50%	+/- 20%	+/- 10%	Si only
eta<0.8	Kalman	2448	2344	2019	1684	643
	DNA	2455	2359	2066	1813	446
	Global Chi2	2470	2365	2027	1782	993
1.6>eta>0.8	Kalman	2393	2202	1663	1166	1003
	DNA	2416	2261	1791	1396	768
	Global Chi2	2421	2236	1734	1355	1438
eta>1.6	Kalman	2501	2004	1089	613	1658
	DNA	2512	2050	1170	679	1615
	Global Chi2	2509	2016	1113	659	1864

Pt = 2GeV Electrons (10k events) 14.1 dev rel_2 (9April)

Eta range	Fitter	Total	+/- 50%	+/- 20%	+/- 10%	Si only
eta<0.8	Kalman	2452	2346	2020	1686	665
	DNA	2460	2367	2071	1833	417
	Global Chi2	2463	2356	1946	1429	354
1.6>eta>0.8	Kalman	2406	2209	1669	1172	1035
	DNA	2416	2264	1796	1427	756
	Global Chi2	2417	2185	1453	930	612
eta>1.6	Kalman	2517	2001	1094	614	1680
	DNA	2523	2057	1198	686	1637
	Global Chi2	2505	1981	1035	575	1557

Pt = 2GeV Electrons (10k events) 14.0.0

Eta range	Fitter	Total	+/- 50%	+/- 20%	+/- 10%	Si only
eta<0.8	Kalman	2418	2322	2003	1690	688
	DNA	2439	2349	2046	1814	384
	Global Chi2	2468	2357	1978	1535	471
1.6>eta>0.8	Kalman	2374	2188	1690	1209	1111
	DNA	2388	2238	1780	1404	744
	Global Chi2	2423	2203	1561	1038	816
eta>1.6	Kalman	2478	1993	1103	630	1663
	DNA	2496	2039	1180	687	1621
	Global Chi2	2513	1987	1056	602	1617

Pt = 2GeV Pions (10k events) 15.0.0

Eta range	Fitter	Total	+/- 50%	+/- 20%	+/- 10%	Si only
eta<0.8	Kalman	2478	2453	2437	2431	201
	DNA	2484	2459	2440	2431	202
	Global Chi2	2487	2461	2446	2431	197
1.6>eta>0.8	Kalman	2448	2418	2391	2381	278
	DNA	2449	2419	2391	2372	277
	Global Chi2	2459	2424	2391	2370	269
eta>1.6	Kalman	2655	2623	2583	2481	1513
	DNA	2655	2622	2578	2443	1511

	Global Chi2	2667	2635	2591	2479	1505

Pt = 2GeV Pions (10k events) 14.2 devval rel_3 (29 May)

Eta range	Fitter	Total	+/- 50%	+/- 20%	+/- 10%	Si only
eta<0.8	Kalman	2479	2455	2438	2430	215
	DNA	2483	2459	2442	2431	212
	Global Chi2	2493	2469	2451	2444	216
1.6>eta>0.8	Kalman	2440	2409	2387	2380	291
	DNA	2442	2411	2389	2373	291
	Global Chi2	2456	2421	2400	2385	299
eta>1.6	Kalman	2660	2629	2585	2465	1541
	DNA	2660	2628	2582	2418	1538
	Global Chi2	2669	2638	2601	2506	1564

Pt = 2GeV Pions (10k events) 14.1 dev rel_2 (9April)

Eta range	Fitter	Total	+/- 50%	+/- 20%	+/- 10%	Si only
eta<0.8	Kalman	2483	2458	2438	2429	225
	DNA	2485	2460	2441	2428	222
	Global Chi2	2490	2465	2441	2414	186
1.6>eta>0.8	Kalman	2471	2423	2395	2386	309
	DNA	2472	2426	2395	2381	304
	Global Chi2	2475	2424	2367	2337	243
eta>1.6	Kalman	2721	2658	2596	2475	1564
	DNA	2721	2657	2593	2454	1561
	Global Chi2	2726	2659	2584	2467	1537

Pt = 2GeV Pions (10k events) 14.0.0

Eta range	Fitter	Total	+/- 50%	+/- 20%	+/- 10%	Si only
eta<0.8	Kalman	2481	2457	2438	2434	221
	DNA	2483	2459	2437	2431	214
	Global Chi2	2493	2468	2448	2429	202
1.6>eta>0.8	Kalman	2457	2415	2386	2375	303
	DNA	2460	2420	2389	2374	302
	Global Chi2	2480	2432	2390	2371	279

eta>1.6	Kalman	2712	2645	2586	2471	1563
	DNA	2713	2646	2584	2447	1562
	Global Chi2	2731	2666	2604	2486	1572

Pt = 2GeV Muons (10k events) 14.2 devval rel_3 (29 May)

Eta range	Fitter	Total	+/- 50%	+/- 20%	+/- 10%	Si only
eta<0.8	Kalman	2609	2609	2609	2607	51
	DNA	2610	2610	2609	2606	52
	Global Chi2	2610	2610	2610	2608	56
1.6>eta>0.8	Kalman	2675	2675	2674	2668	10
	DNA	2675	2675	2672	2650	10
	Global Chi2	2678	2678	2678	2668	42
eta>1.6	Kalman	3131	3131	3125	3012	1646
	DNA	3131	3131	3114	2966	1648
	Global Chi2	3131	3131	3125	3029	1711

Pt = 2GeV Muons (10k events) 14.1 dev rel_2 (9April)

Eta range	Fitter	Total	+/- 50%	+/- 20%	+/- 10%	Si only
eta<0.8	Kalman	2610	2610	2610	2608	55
	DNA	2610	2610	2609	2602	57
	Global Chi2	2610	2610	2610	2609	42
1.6>eta>0.8	Kalman	2677	2677	2675	2670	13
	DNA	2677	2677	2673	2651	14
	Global Chi2	2679	2679	2678	2669	4
eta>1.6	Kalman	3133	3133	3127	3018	1650
	DNA	3133	3133	3124	2998	1649
	Global Chi2	3132	3132	3128	3024	1642

Pt = 2GeV Muons (10k events) 14.0.0

Eta range	Fitter	Total	+/- 50%	+/- 20%	+/- 10%	Si only
eta<0.8	Kalman	2607	2607	2607	2605	54
	DNA	2607	2607	2606	2599	53
	Global Chi2	2610	2610	2610	2609	45
1.6>eta>0.8	Kalman	2671	2671	2670	2666	16

	DNA	2673	2673	2671	2653	19
	Global Chi2	2678	2678	2678	2671	4
eta>1.6	Kalman	3124	3124	3118	3017	1647
	DNA	3125	3125	3115	2998	1645
	Global Chi2	3134	3134	3129	3031	1654

Pt = 10GeV Electrons (10k events) 14.2 devval rel_3 (29 May)

Eta range	Fitter	Total	+/- 50%	+/- 20%	+/- 10%	Si only
eta<0.8	Kalman	2633	2459	2091	1672	543
	DNA	2646	2466	2144	1849	349
	Global Chi2	2655	2483	2124	1825	1016
1.6>eta>0.8	Kalman	2498	2182	1617	1052	895
	DNA	2507	2216	1767	1308	624
	Global Chi2	2562	2237	1751	1318	1420
eta>1.6	Kalman	2885	2115	1071	622	1820
	DNA	2895	2166	1172	693	1754
	Global Chi2	2944	2149	1177	660	2069

Pt = 10GeV Pions (10k events) 14.2 devval rel_3 (29 May)

Eta range	Fitter	Total	+/- 50%	+/- 20%	+/- 10%	Si only
eta<0.8	Kalman	2668	2582	2562	2546	201
	DNA	2669	2581	2561	2545	198
	Global Chi2	2678	2586	2568	2549	217
1.6>eta>0.8	Kalman	2598	2521	2509	2468	267
	DNA	2599	2523	2503	2457	264
	Global Chi2	2610	2529	2517	2482	243
eta>1.6	Kalman	2931	2832	2792	2648	1562
	DNA	2932	2831	2780	2596	1560
	Global Chi2	2956	2843	2792	2657	1593

Pt = 10GeV Muons (10k events) 14.2 devval rel_3 (29 May)

Eta range	Fitter	Total	+/- 50%	+/- 20%	+/- 10%	Si only
eta<0.8	Kalman	2770	2769	2769	2768	46

	DNA	2770	2769	2769	2767	46
	Global Chi2	2771	2770	2770	2769	56
1.6>eta>0.8	Kalman	2612	2611	2610	2604	3
	DNA	2612	2611	2609	2586	4
	Global Chi2	2612	2610	2609	2601	32
eta>1.6	Kalman	3047	3047	3037	2927	1522
	DNA	3047	3047	3033	2883	1522
	Global Chi2	3047	3047	3033	2925	1538

-- SueCheatham - 23 Mar 2009

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