

Current Status of $K^+ \rightarrow \pi^0 \mu^+ \nu_\mu \gamma$ study

FUJIWARA, Tsunehiro

Department of Physics, Kyoto University

fujiwara@scphys.kyoto-u.ac.jp

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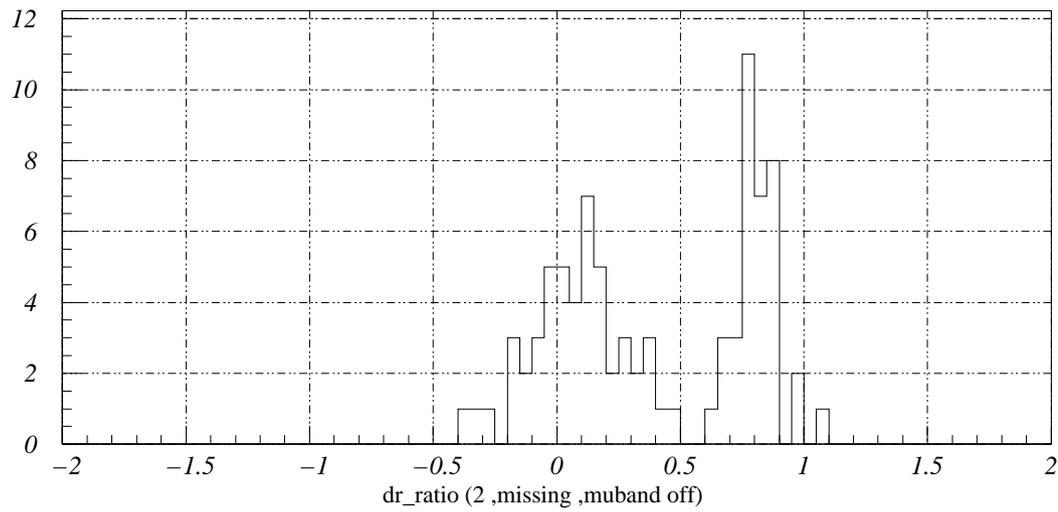
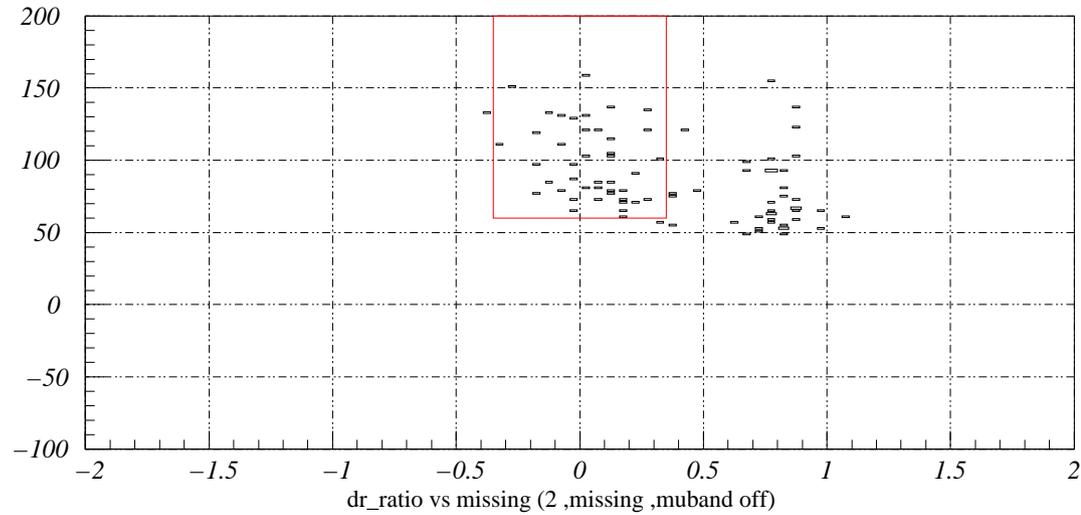
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Background summary

	1/3	full
sources	#events	#events
$K_{\pi 3}(BV/PV/OVP)$	1.39	4.20
$K_{\mu 3} + Acc$	1.33	7.33
$K_{e 3}/K_{e 3\gamma}$	0.15	0.20
$K_{\pi 2\gamma}$	< 0.23	<0.97
$K_{\mu 3} +$ splitted γ	< 0.55	<2.32
All Backgrounds	2.87 + <0.8	11.7 + <2.9
$K_{\mu 3\gamma}$	8.9	37.7

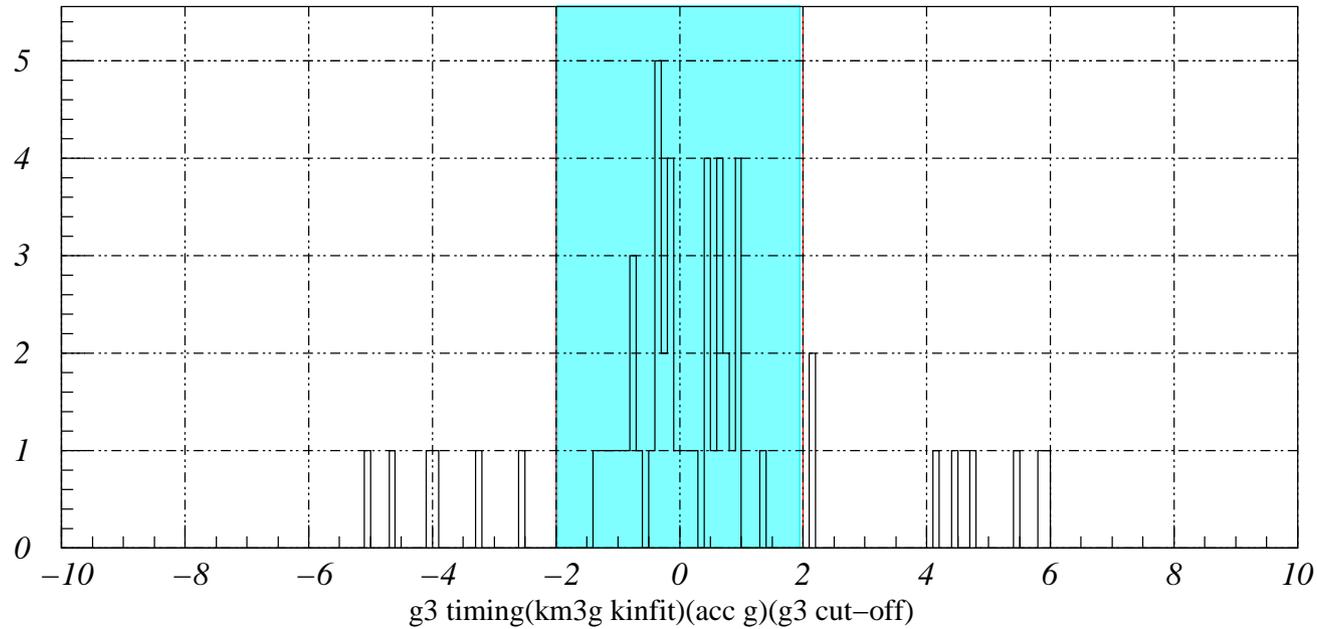
code debugs improve analysis efficiency by about 30% . So effectively 4 times larger statistics is now obtained.

Signal Candidates



Signal Candidates

radiated γ timing distribution when timing cut is loosened.



Summary & Prospects

Background estimation is consistent between 1/3 and full sample.
miscellaneous distribution checks are now ongoing.
If no problem ,branching ratio will be obtained soon.