

Asian Physics and Software meeting

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Physsim and stdhep : update

- JSFWriteStdHep.cxx: prompt tau(from Spring), like $tt \rightarrow bb\tau\nu\tau\nu$
 - ◆ Pointers to decay daughters were forced to set 0.
Problem to move vertex of decay daughters.
→ modified to keep daughter pointers, if prompt particle(mother<0) and pid= ± 15
- QucikSimulator.
 - ◆ When reading generator data from stdhep file.
stdhep format does not have information of ctau. It is inserted in JSFGenerator.cxx.
 - ◆ Current code: ctau=0 if mother<0 (i.e, prompt particle)
Modification: ctau=0 if mother< 0 and pid .ne.13.nor.15
- Mokka
 - ◆ pointer to mother of tau is negative. Is this OK for Mokka ?
 - ◆ should be OK. but check is necessary.

Stdhep Problem - 2

■ Physsim tt→bbqqqq

Event715 GeneratorParticles=283

No	PID	Q	Mass	St	Mom	K_S	Ndau	1stDau	ctau	DL
1	-5	0.33	4.700	13	-13		1	5	0.000	0.000
2	5	-0.33	4.700	13	-13		1	5	0.000	0.000
3	-24	-1.00	80.320	13	-13		1	5	0.000	0.000
4	24	1.00	81.092	13	-13		1	5	0.000	0.000
5	-5	0.33	4.700	2	1		1	7	0.000	0.000
6	5	-0.33	4.700	2	2		1	7	0.000	0.000
7	91	0.00	10.009	2	5		1	8	0.000	0.000
8	553	0.00	9.460	13	-13		1	5	0.000	0.000
9	21	0.00	0.000	13	-13		1	5	0.000	0.000
10	21	0.00	0.000	13	-13		1	5	0.000	0.000
11	21	0.00	0.000	13	-13		1	5	0.000	0.000
12	94	0.00	9.460	13	-13		1	5	0.000	0.000
13	21	0.00	2.968	13	-13		1	5	0.000	0.000
14	21	0.00	0.000	13	-13		1	5	0.000	0.000
15	21	0.00	0.000	13	-13		1	5	0.000	0.000
16	21	0.00	0.000	13	-13		1	5	0.000	0.000
17	21	0.00	0.000	13	-13		1	5	0.000	0.000
18	21	0.00	0.000							
19	21	0.00	0.000							

Problematic lines

: produce error in Mokka(in ilcsoft-v01-06)
when preparing mother-daughter relation.
OK in ilcsoft-v01-07 or newer.

→ set status code=13 to neglect these lines. in v01-06

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- Changes will be comitted to CVS soon.

Other Info.

■ AFS client at KEKCC

AFS works at KEKCC and accessible to AFS server at DESY

The latest ilcsoft, 01-09-p02, is available under AFS path

■ New samples produced at GRID

- ◆ sb2009_500_wTF by GuineaPig. aiming to ~1500 bunches (1 pulse)

- ◆ 6 partons by Whizard

- ◆ ttbar by Pyissim → aiming 50 fb⁻¹, will be soon.

- ◆ The size of each DST files is small. Thinking to create merged DST files.