

BIB Submission Planning

Sample	Analyzed without BIB?	Person	Notes	Status
π^\pm gun, 10 GeV – 1 TeV	Yes	Cyrus		20k events done
e^\pm gun	Yes	Moses		
μ^\pm gun	Yes	--	Done by larger MAIA group	
q/g gun / Dijet	Yes	Giacomo		
τ gun, 20 - 250 GeV	Yes	Ethan		15k events done
τ gun, 250 – 1000 GeV	No	Abdollah		
τ gun, 1 – 5 TeV	No	Greg	Fewer events / lower priority	~6k events done

In all cases, it would be best to have each event reconstructed with and without BIB overlaid!

From experience: Submit one event at a time. Add the option to run for 40 hours, and to resubmit with additional memory allotted, if needed.

BIB Submission, High p_T Taus

- 1 – 5 TeV slice is finished
- 10k events were generated and simulated
- BIB reconstruction progress (submitted ~1 week ago):
 - 9834 “Done”
 - Though ~3100 of the output .slcio files are *empty*. This seems to be a problem independent of condor, and requires more investigation
 - 165 “Held”
 - 42 / 165: job exceeded duration (20 hrs)
 - 123 / 165: Excessive CPU usage (This seems like a bug in the software, we shouldn’t be requesting multiple CPUs)
- Total number of “good” events: ~6.7k
- I have dumped a few bash scripts for sorting through the condor output ([link](#)). A few highlights:
 - [count_events.sh](#): Runs lcio_event_counter on each .slcio file in directory. Good for identifying and deleting empty .slcio files
 - [filter_held.sh](#): Finds jobs with “Transfer input files failure”
 - [find_missing.sh](#): Finds missing files (input is a joblist.txt file that is checks for consistency)
 - [held_to_resubmit.sh](#): Creates a new joblist.txt from held jobs