

Beam Monitoring in **ECAL+STT**

Artem Chukanov, Bing Guo, Roberto Petti, Svetlana
Vasina

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Updates

- improved energy reconstruction for ECAL events
- excluded true events with unreconstructed muon (χ^2 for true events is decreased because of lower statistics)

Results - 1 week

Beam variation	ECAL				STT			
	neutrino		muon		neutrino		muon	
	sim	rec	sim	rec	sim	rec	sim	rec
Horn current	144.3	81.4	36.4	35.5	66.8	32.6	14.4	13.1
Water layer thickness	21.0	14.2	9.4	9.1	9.4	5.1	3.5	3.1
Decay pipe radius	45.0	29.9	14.2	14.0	23.1	12.3	5.7	5.5
Proton target density	19.6	14.3	10.7	10.5	8.6	5.5	4.0	3.7
Beam sigma	28.3	20.6	17.5	17.0	11.5	7.3	6.3	5.7
Beam off set X	1.5	0.8	0.4	0.4	0.6	0.3	0.1	0.1
Beam theta phi	0.6	0.2	0.1	0.1	0.3	0.1	0.0	0.0
Beam theta	0.7	0.2	0.1	0.1	0.4	0.1	0.0	0.0
horn 1 X shift	12.7	7.0	3.2	3.1	6.2	3.0	1.3	1.2
horn 1 Y shift	17.2	9.5	4.3	4.2	7.9	3.8	1.8	1.6
horn 2 X shift	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0
horn 2 Y shift	0.4	0.1	0.0	0.0	0.2	0.0	0.0	0.0