J-PARC Hadron Hall : EXPERIMENTAL REPORT on RUN#46

		Date(submitted)	2013/01/25
Group	E15	Beam líne	K1.8BR
Reporter	Name	e-mail address	
	F.Sakuma (RIKEN)	sakuma@ribf.riken.jp	
Experimenters	Kyoto-U: Y.Sada Osaka-U: S.Enomoto, K.Inoue, S.Kawasaki, H.Noumi, T.Yamaga RIKEN: Y.Ma, F.Sakuma TITECH: M.Tokuda U-Tokyo: T.Hashimoto, M.Sato		
Summary and R Production ta	esults	10, M.Sato	
Jan.16–17 ✓ beam-li	ne study, engineering ne (magnets and slits) ring run with full-setu	study	/K/p [K1.8ES1=+/-250kV]
	EXECUTED MACHINE TIME, 0 ~ Jan.17 9:00: tot 23: Tot		downtime), 15kW

preliminary results of Run#46

• 2nd engineering run in 21-22 Jan.

- − production: 11h @ 14.5kW \rightarrow 6.6kW*day
 - cf. 30kW*week = 210kW*day
- 500 M K⁻ on target

Background study for forward neutrons

- ~100MHz beam structure caused by the transverse-RF is a big issue in the missing mass spectroscopy for E15
 - γ (/n) from pileup pions makes ~100MHz structure in the forward-neutron TOF-spectrum
- Pileup rejection circuit in the beam trigger seems to work well, however we have to study more carefully in the online analysis



Appendix1: Pileup rejection circuit



Appendix2: What is the problem?

 $1/\beta$ spectrum of the neutral particles obtained by the NC @ RUN#43



What is the problem? (Cont'd)

"Raw" TOF-spectrum obtained by the NC @RUN#46

