

Subject: Re: QF measurement supporting data

Date: Fri, 14 Apr 2000 11:17:01 -0500 (CDT)

From: Kamran Vaziri <vaziri@fnal.gov>

To: Tony Leveling <hamburg@fnal.gov>

CC: Frederick Krueger <fkrueger@fnal.gov>, "John A. Larson Jr." <jal@fnal.gov>, "James P. Morgan" <jpmorgan@fnal.gov>, "Elvin R. Harms Jr." <harms@fnal.gov>, "David P. McGinnis" <mcginnis@fnal.gov>

Hi Tony,

Recombination chamber results, normalized to the Chipmunks at each location give the following Quality factors;

Downstream in front of the water cage = 5.0 +/- 20%
UPstream quality factor = 1 +/- 50%

Please let me know if you had any questions.
Kamran

On Thu, 13 Apr 2000, Tony Leveling wrote:

> Fred, John, and Kamran,

>
> Here are the chipmunk responses and total protons run for yesterday's
> measurements.

	protons	counts	ratio
> Run 1 DS	84.6	25.3	3.34
> Run 2 DS	79.8	24.3	3.28
> Run 3 DS	80.9	23.3	3.47
> Run 4 DS	82.7	25.3	3.27
>			
> Run 1 US	94.7	77.9	1.22
> Run 2 US	92.6	74.9	1.24
> Run 3 US	98.4	77.9	1.26
> Run 4 US	99.0	79.9	1.24

>
> The protons are in units of 1E12 protons. Counts are the net total
> counts in each run. The chipmunk was set with QF = 5 so divide counts by
> 5 and multiply by 2.5 to get total microrads per run. The ratio is
> included as a figure of merit - it's just the ratio of protons/count to
> indicate consistency across the runs.

>
> Chipmunk background was checked for three different periods for both DS
> and US measurements and was very consistent - DS 5.1 cpm, US 5.3 cpm.

> Thanks very much for your work in making this measurement.

> Tony

Attachment 1