

I10 Magnet Position vs. Early CBM. I10 Extraction

J. Keane

May 1974

Collider Accelerator Department
Brookhaven National Laboratory

U.S. Department of Energy

USDOE Office of Science (SC)

Notice: This technical note has been authored by employees of Brookhaven Science Associates, LLC under Contract No.AT(30-1)-16 with the U.S. Department of Energy. The publisher by accepting the technical note for publication acknowledges that the United States Government retains a non-exclusive, paid-up, irrevocable, world-wide license to publish or reproduce the published form of this technical note, or allow others to do so, for United States Government purposes.

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, nor any of their contractors, subcontractors, or their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or any third party's use or the results of such use of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

FEB COMMISSIONING STUDY
KEANE, CORNISH
scheduled 0001 to 0600

MAY 8, 1974
NO. 67
Blumberg

OBJECT I See IFI 10 Magnet camera machine
operation at injection
II EXTRACT FRACTION of Internal beam at I10

RESULTS

I. There was no interference at injection!
I10 magnet position was run at its
max. in position (H10 FEB POSITION .375 IN)
I10 backleg P.S. ran at max current
Ran out past transition with no problem
NOTE: that early radius shift (50 millies)
had been set up for hard lvs shift

II EXTRACTION at I10

DID get extracted beam on both I13
and I10 flags! Intensity & extraction
efficiency unknown.

(a) Had no indication on I13 current transforms
a still have ~~for~~ computer problems
when try to run FEB [25, 75]

(b) With C15/E15 OFF & all other parameters set
had notch in circulating beam of
 $\approx 15\%$ at extraction time. Could reduce
notch magnitude by pulling out I10 magnet & then
turning off I10 bump but could not
eliminate completely. Turned off I10
ejector magnet & didn't have any effect

(c) With C15/E15 ON circulating beam
monitors dropped to about 45% at extraction
time

(d) Noted rotated ellipse at I13 Flag
slightly rotated at I10 flag