

## BNL-103936-2014-TECH AGS.SN58;BNL-103936-2014-IR

## E15 Kicker for 9H Measurement. Bunch Shape Osc.

E. Raka

April 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, worldwide 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.

Blumberg NO, 58 Rala AGS Studias \$/1/74 1900-0300 The E-15 tule way power to ICK wand and the attempt to majure hornental Q reduce at 500 me (~ 2100 mil). Bland a listicat the resulting able to able the (9-Q) frequence, Hence The brian whe flange Coupling to the vertice whether also The brian whe flange Coupling to the vertice whether also bunch shape coscillations excited lefore transition whe confurment with the dependent of at 22×10 ho themping is mediate which at an and the and the formation of the amplitude dips proved of the amplitude dips proved in the high level RF. Raiston the alamp level withit the completed in the angle interview him the existence of the light interview him the angle for the lyllation is chugenby a complex interation between beau, With Elex10" transition now passed using a double place yeing and clamped radial signal. Transition lass way consistently 540. while with the standard single geimp and ver clamp the Ringe mas .7 - 1+ × 1012 With 3-1×12 transition with no loss are set up is in the film while implified place youp toutual radial lyten in. The film while all B nos support out any 1-6to + 7 mm at 1+7 from 300 - 650mmer The horizontal instatility all placeste tet 14-7 +1 to + 9 mm was not present not was the lad 300-350mmer olified the dipole instability (gen let 0 to - 2000 present. One did see a veited dipole instituty, generally uncaupled band made, starting at 400-450 melicint -1th-3mm. Note that the were no SEBONFERME last ofAnied (on 3115) The Star RBD Inaspeller Nemored.