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## Measure Linear Coupling at 2, 14, 26 and 28.5 GeV/c

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NO. 66 M. Month Blumburg E. Rala 7/12/79 AGS Studies 0700-1430 The linear coupling present in the AGS at was measured at 2, 149 26 and 28,5 Beak. Company Telel that produces the excepting was achieved by powering the correction quadrupoles located at At, 1-15, 6-15, 5-15 for the high momentum rules Fin the 2 Best fount the 24 low field shew given whe wild. The required currents for the higher corrections ded not quite truck the momentum days . L. @ 370 well (B8 245) In = 29 amps @ 600 (B8 = 278) Is= 52 amps and @ 640 mea (Br=30) Io = 58 ±3 cmps. The additional current required sould be due to saturation effects but one um conducte that essentially allof the district coupling is due to the notitions the main ring magnets. Prevous measurements on the 5 EB flut top @ Bt = 30 gard on Ia = 75 amps. The difference here would be due to the additional buch he blimps, turning quads etc. that ported during 525 oppliation. The measurements were made by using the F-15 Kille And morning the Allen rading until one observed that the beat signal of the (9-2) to component of the H&V difference signals had a zero amplitude mull. This assured that the beam was then on the Doupling line.