NO. 36 Blumberg

AGS Studies M Q Barton

Orbit Harmonics 5-SEPT-73 0001 – 0600

actual start of work ~ 0125

This effort directed towards repeat of 2-MAY-73 experiment but with more harmonics and horizontal orbit also.

1. Found slight improvement by decreasing cos 9θ vertical by 1000 units and increasing sin 9θ by 1000.
2. No improvement in changing 8θ or 10θ. As should be expected, found these ~3-4 times less sensitive than 9θ corrections.
3. Horizontal 9θ corrections not very helpful. Sensitivity comparable to vertical case.
4. Saw a somewhat anamolous situation on horizontal 8θ & 10θ. In both cases sin nθ much more sensitive than cos nθ. May indicate an obstruction but data are not sufficiently convincing to point to it.
5. This method needs a new computer program which would run automatically and could be parasited on HEP.