AD/RHIC/RD–20

RHIC PROJECT

Brookhaven National Laboratory

Definition of a_1 Correctors

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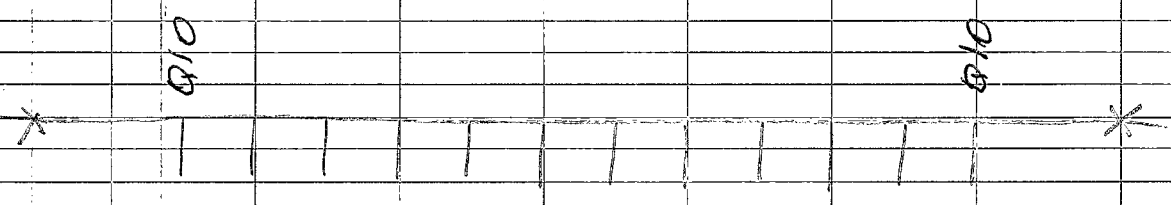
Hahn & Parke
5/30/90

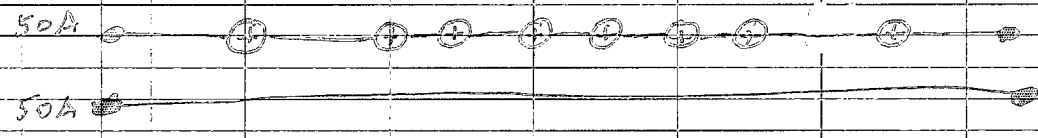
a_1 CORRECTORS IN ARC

INNER ARCS

Q9 is focussing

Each QD has a_1 : 12 x 1.5 T, 8 cm





"Coupling"

"Vert. Disp"
"Q9"

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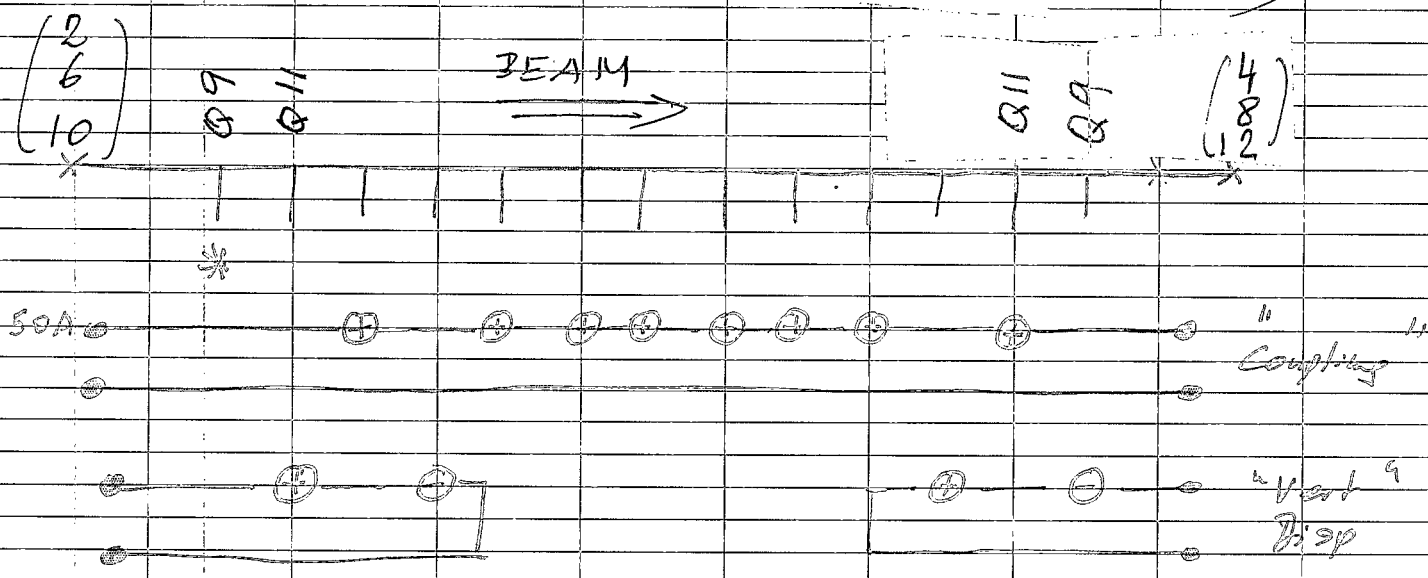
a_1 in OUTER ARCS

QQ are DEFOCUSSING

a_1 at QD : 12 x 1.5T ; 8cm

* NO a_1 at QQ in 6, 10, 2 o'clock

Note, corrector package at QQ in 6, 10, 2 o'clock has only a_0 (horiz. Dipole)



DAY-ONE

EACH RING :

1 Power supply for 6 sextants "Coupling" only

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a_1 at Q2

EACH RING: 12 x 1.5T ; 13 cm

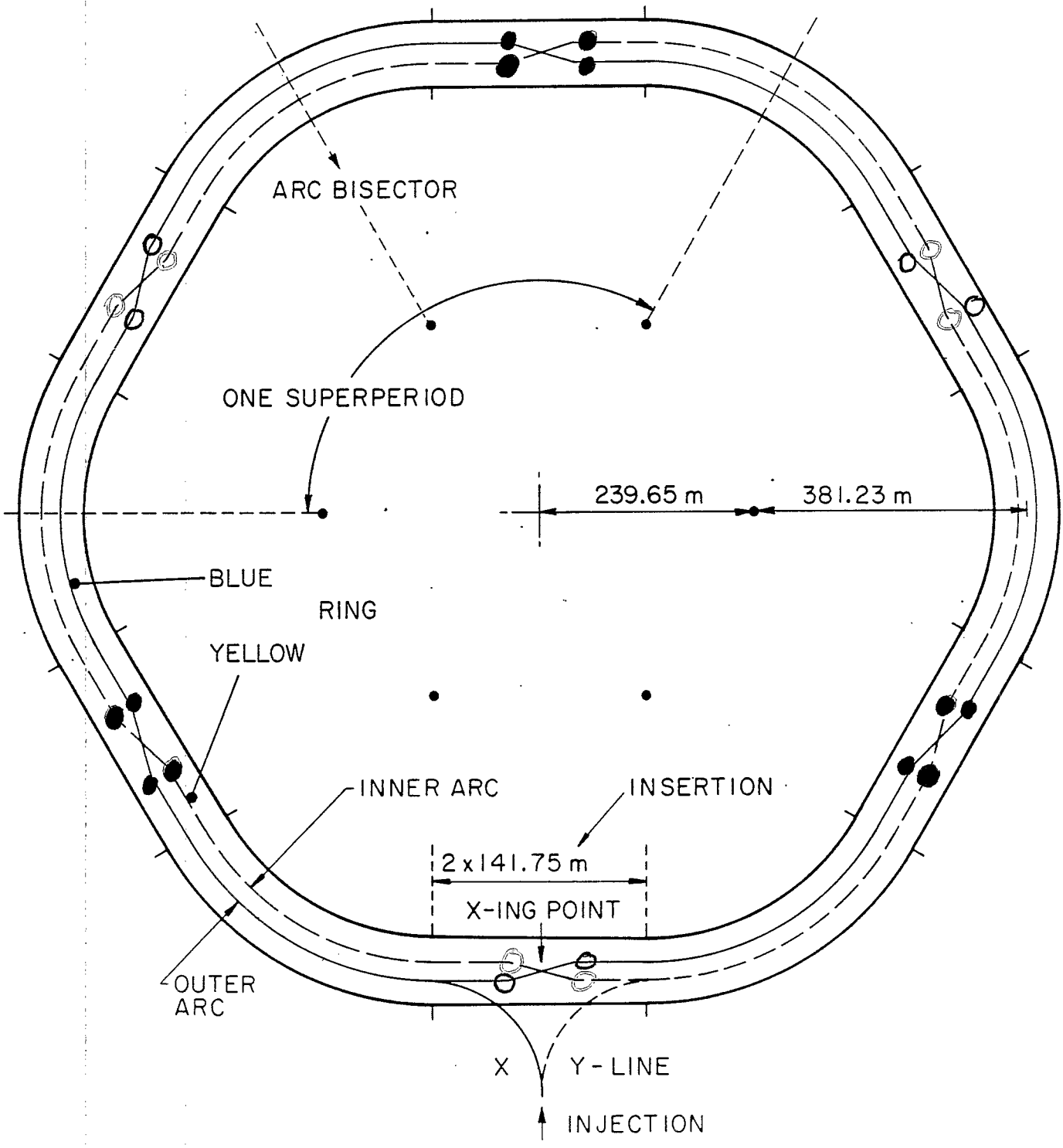

Fig. IV.2-1. Layout of the Collider.

DAY-ONE POWER SUPPLIES EACH RING:

1 FAMILY 2, 6, 10 o'clock

1 " 4, 8, 12 "

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a_1 at Q5

EACH RING: 6 x 1.5T ; 8 cm

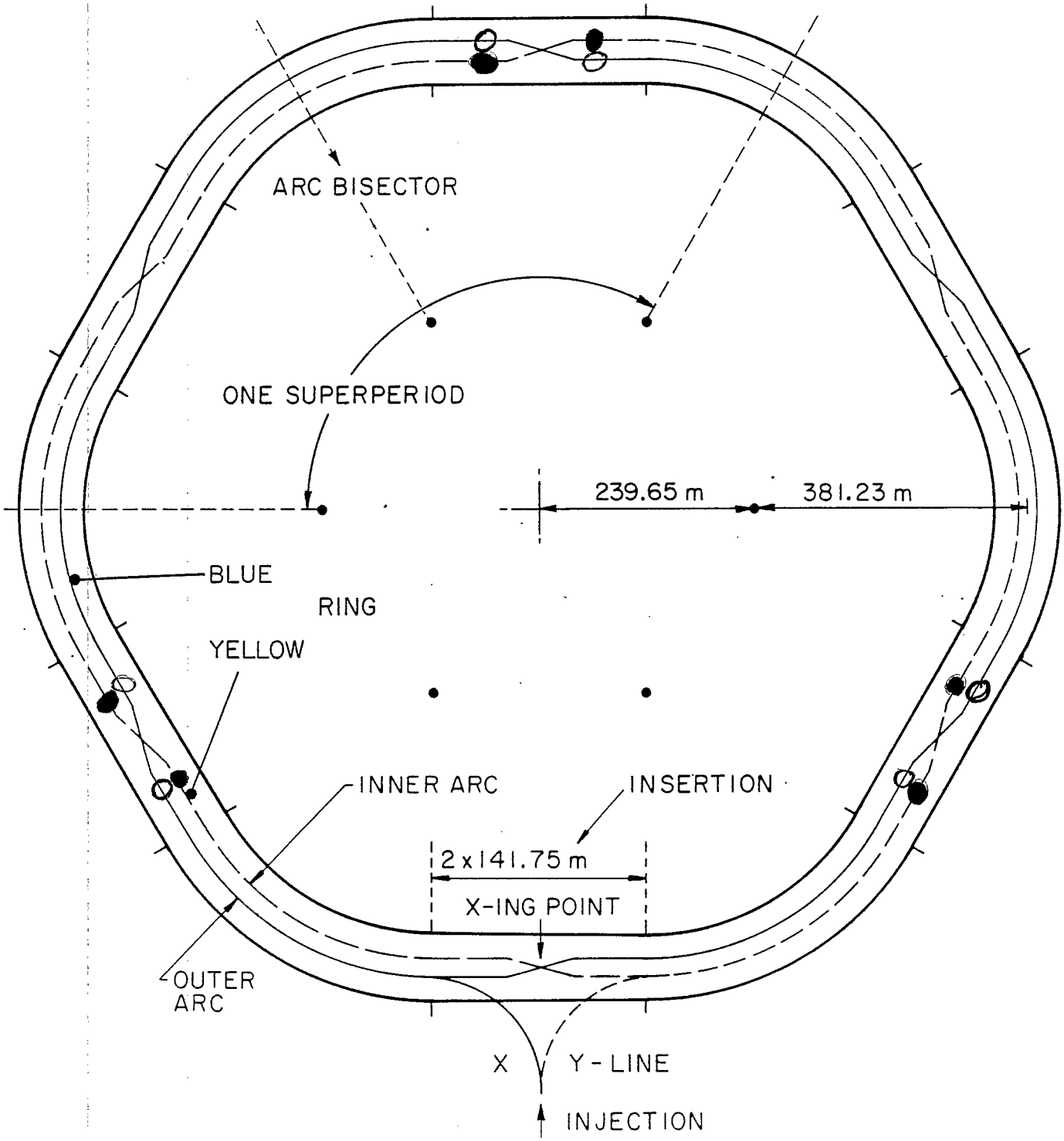

Fig. IV.2-1. Layout of the Collider.

Note: No interference with beam dump

DAY-ONE: 1 Power supply EACH RING