ACCELERATOR EXPERIMENT: Status of Main-Ring Correction Magnet System

Date: July 17, 1974

This is an amendment to EXP-62 (June 21, 1974). Since that time, many correction elements have been removed or rearranged and the change has been reported by Ben Prichard, Operations Bulletin #243, July 16, 1974. All correction elements are now arranged sixfold symmetric.

1. \(2v_x = 39\)
   iron-core quadrupoles at #36 and #42

2. \(2v_y = 39\)
   iron-core quadrupoles at #39 and #45

3. \(v_x - v_y = 0\)
   skew iron-core quadrupoles at #14, #27 and #43

4. \(3v_x = 58\)
   iron-core sextupoles at #28

5. \(v_x + 2v_y = 58\)
   air-core sextupoles at #27, iron-core sextupoles at #35

6. \(3v_y = 58\)
   skew iron-core sextupoles at #14

7. \(2v_x + v_y = 58\)
   skew iron-core sextupoles at #17 and #22
8. **Average octupole field**
   iron-core octupoles
   QF stations #17, #22, #28, #36, #42
   QD stations #21, #23, #25, #27, #33, #35, #37, #39

9. **Average sextupole field for chromaticity**
   iron-core sextupoles
   QF stations #13, #15, #17, #19, #22, #24, #26, #28, #32, #36, #38, #42, #44
   QD stations #12, #14, #16, #21, #23, #25, #27, #29, #33, #35, #37, #39, #43, #45

Total number = 6 x 27 = 162.

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