

RAMPEX at Channel 14

Distances:

- from crystal24 to collimator.....15.0 m
- from crystal25 to collimator.....12.0 m
- from collimator to middle of Q1...1.0 m
- from Q1 to Q2.....2.1 m
- from Q2 to Q3.....1.9 m
- from Q3 to Q4.....2.1 m
- from Q4 to middle of M5.....3.65 m
- from M5 to M18.....24.996 m
- from M18 to Q21..... 15 m
- from Q21 to Q22..... 3.6 m
- from Q22 to Q27..... 13.8 m
- from Q27 to Q28..... 3.6 m
- from Q28 to hodoscope..... 5.58 m
- between hodoscopes 5.73 m
- from hodoscope to polarized target... 8.8 m

Parameters of magnets:

Dipole M1A (type SP150)

- Length 0.5 m (in iron)
0.55 m (in field)
- Aperture (diameter) 0.05 m
- Strength of field ≤ 1.8 T
- Bending angle ± 2 mrad or $\pm 0.116^\circ$

Dipols M5 and M18 (type SP129)

- Length 4.0 m (in iron)
4.15 m (in field)
- Aperture (diameter) 0.18 m
- Strength of field ≤ 1.8 T
- Bending angle:
 - at M5 is equal 13 mrad or 0.756° - from U-70 orbit
 - at M18 is equal 22 mrad or 1.238° - to U-70 orbit

Quadrupoles :

- Q1 (type 20K100A), Q4 (type 20K200A)
- Gradient ≤ 13 T/m
- Aperture 0.2 m, Length 1.0 m and 2.0 m
- Q2, Q3, Q21, Q22, Q27 (type 20K100A)
- Gradient ≤ 13 T/m
- Aperture 0.2 m, Length 1.0 m
- Q28 (type 10K200A)
- Gradient ≤ 0.2 T/m
- Aperture 0.1 m, Length 2.0 m

