

Figure 25: 3-magnet DogLeg bump.

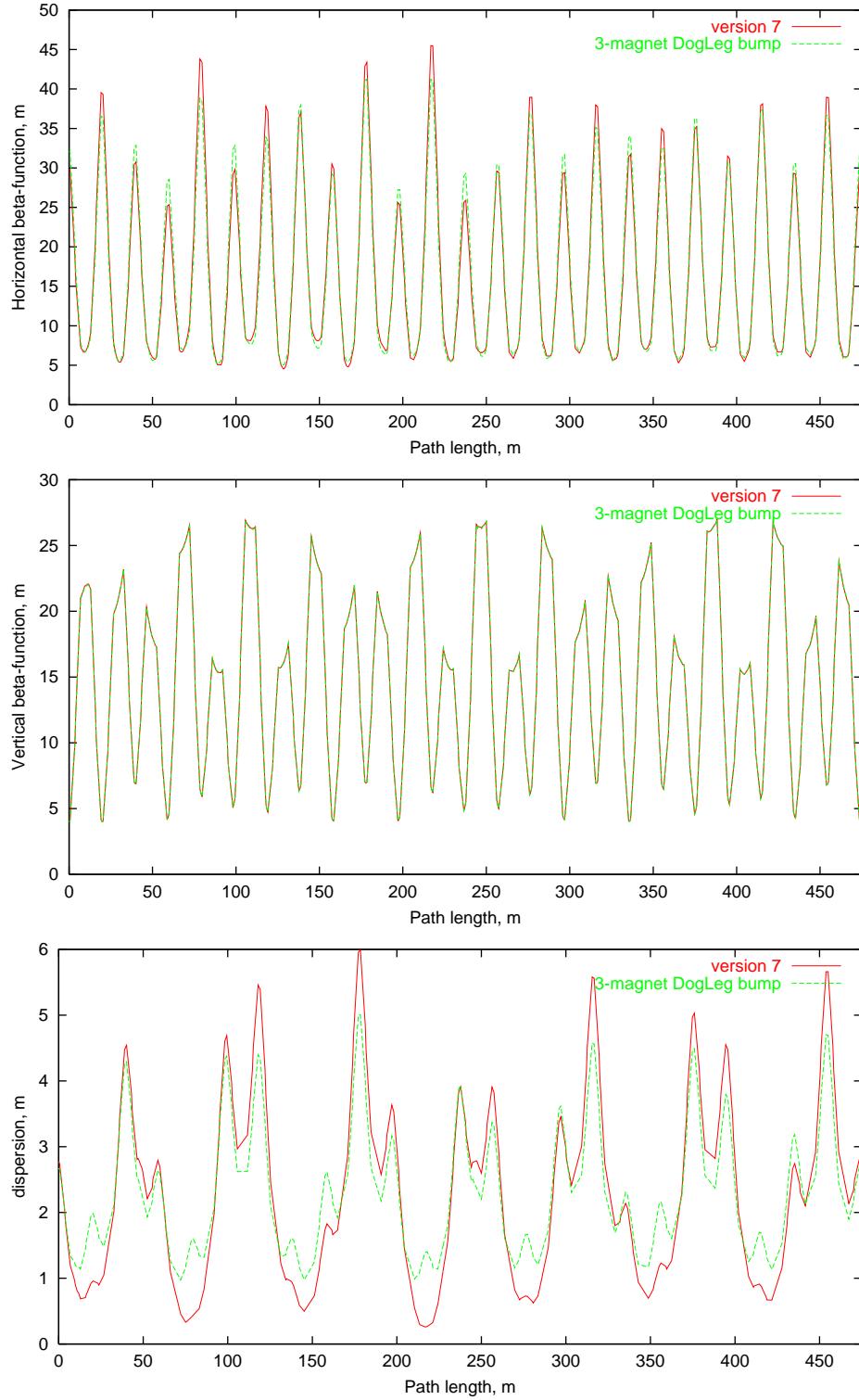


Figure 26: Fermilab Booster horizontal (top), vertical (middle) β functions and horizontal dispersion (bottom) at injection for “version 7” and “version 7” with 3-magnet DogLeg bump at Long03 and Long13.

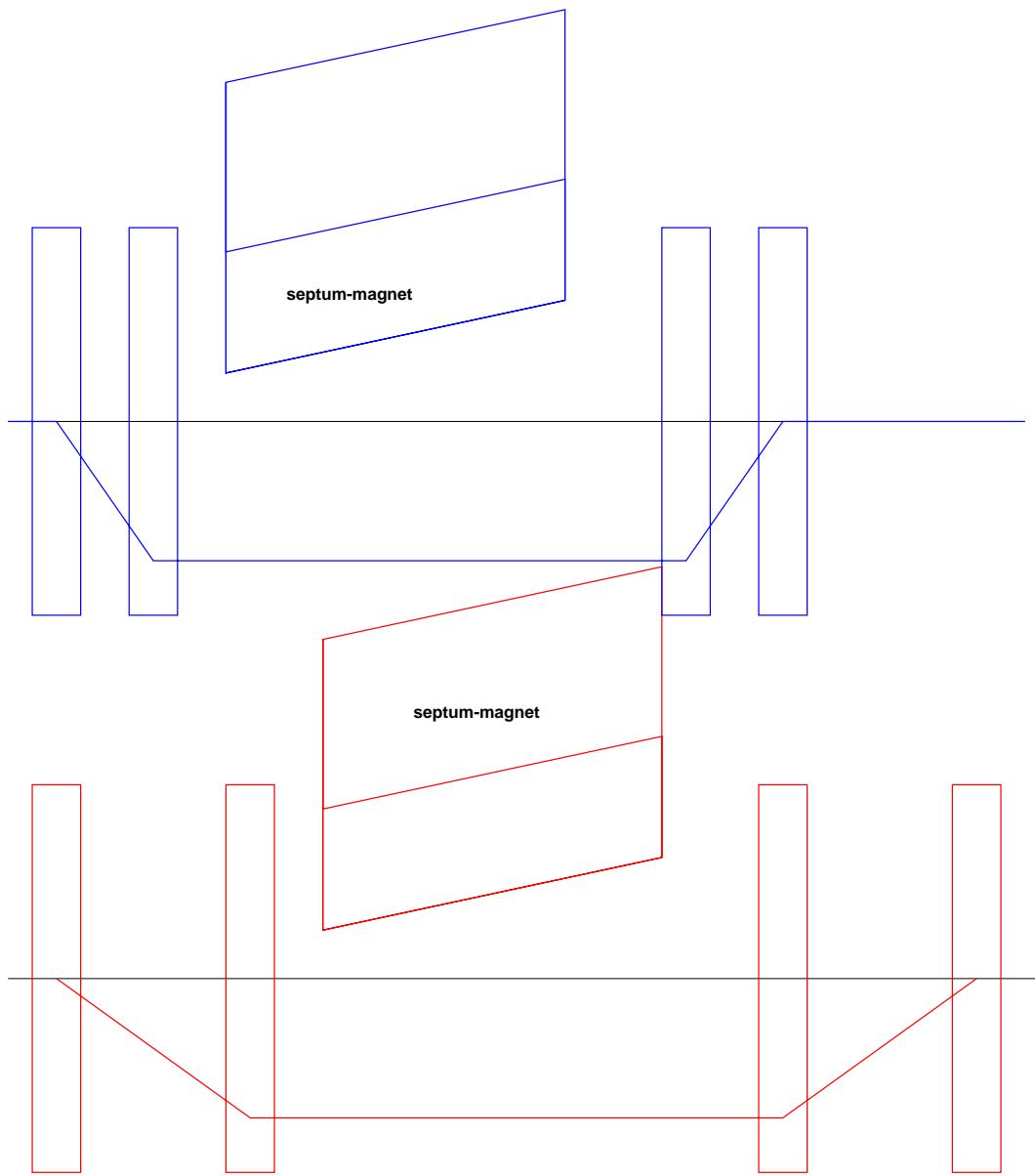


Figure 27: DogLeg bump with space between magnets increased by 0.75 m.

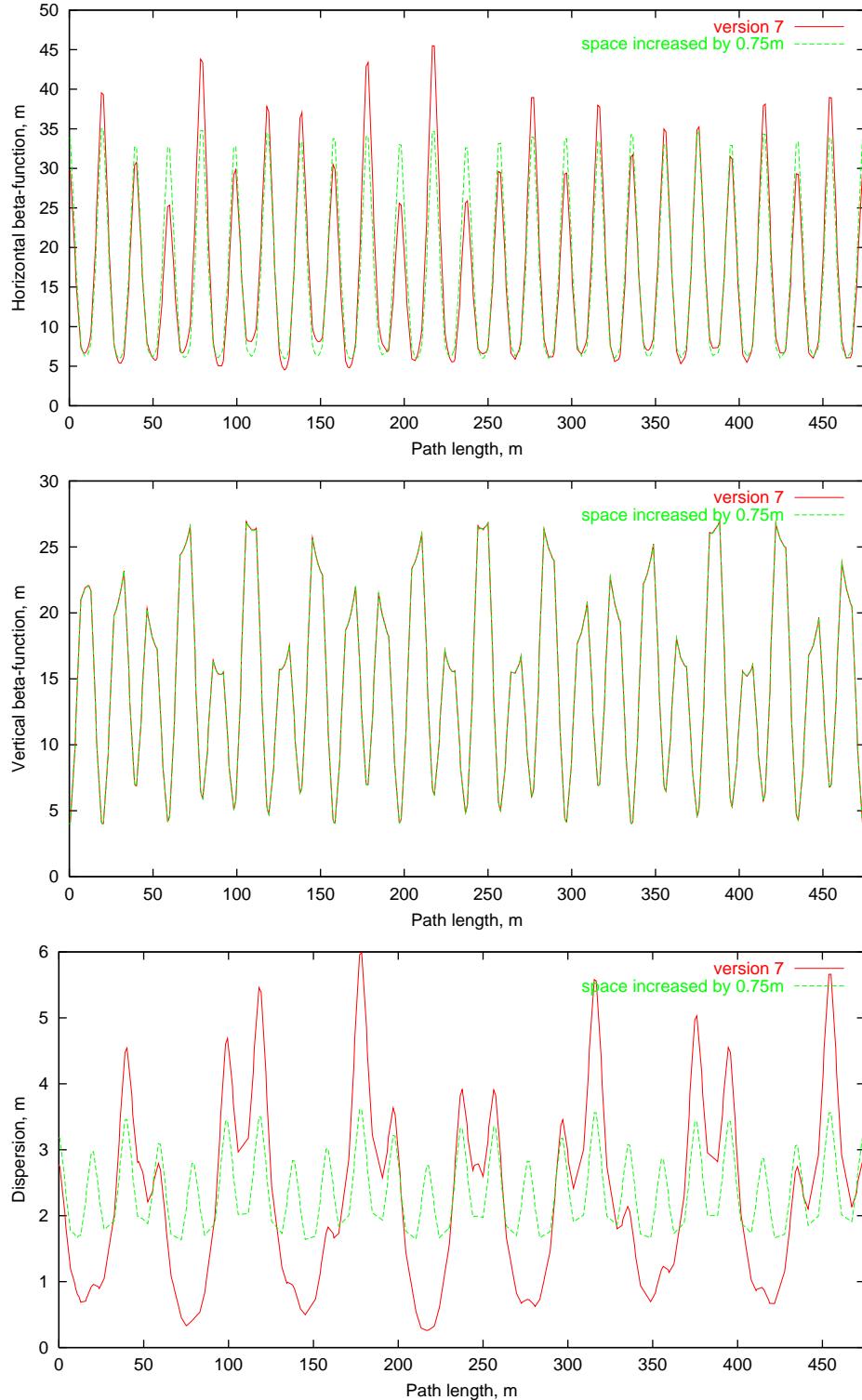


Figure 28: Fermilab Booster horizontal (top), vertical (middle) β functions and horizontal dispersion (bottom) at injection for “version 7” and “version 7” with DogLeg bump at Long03 and Long13 with space between magnets increased by 0.75 m.

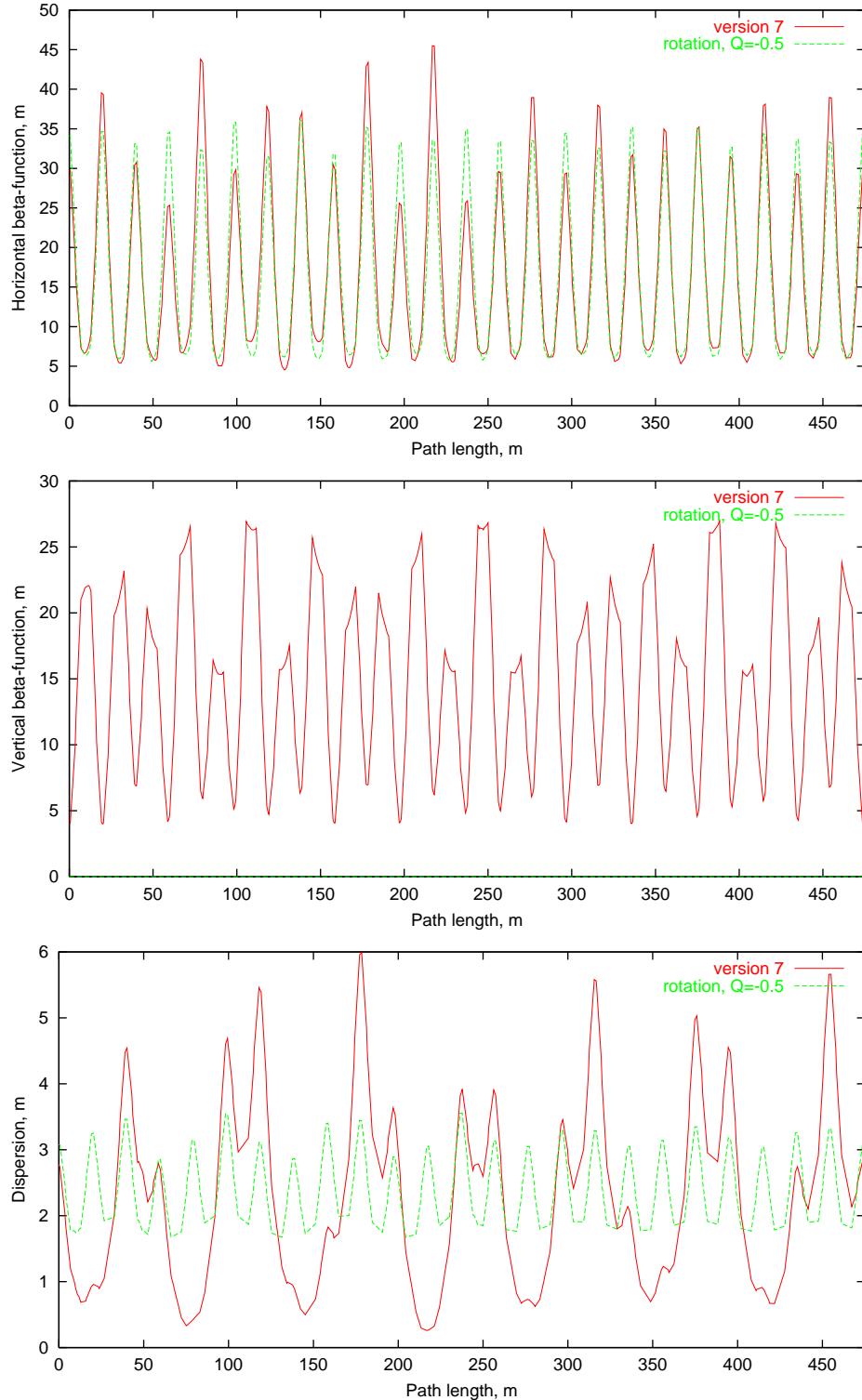


Figure 30: Fermilab Booster horizontal (top), vertical (middle) β functions and horizontal dispersion (bottom) at injection for “version 7” and “version 7” with DogLeg bump at Long03 and Long13 rotated by 11.46 degree with correction by quadrupole behind septum-magnet of $k_f^0 = -0.5$ (there is no stability in a vertical plane, no solution).