

Figure 14: DogLeg bump magnets location in the Booster Long-03 straight section.

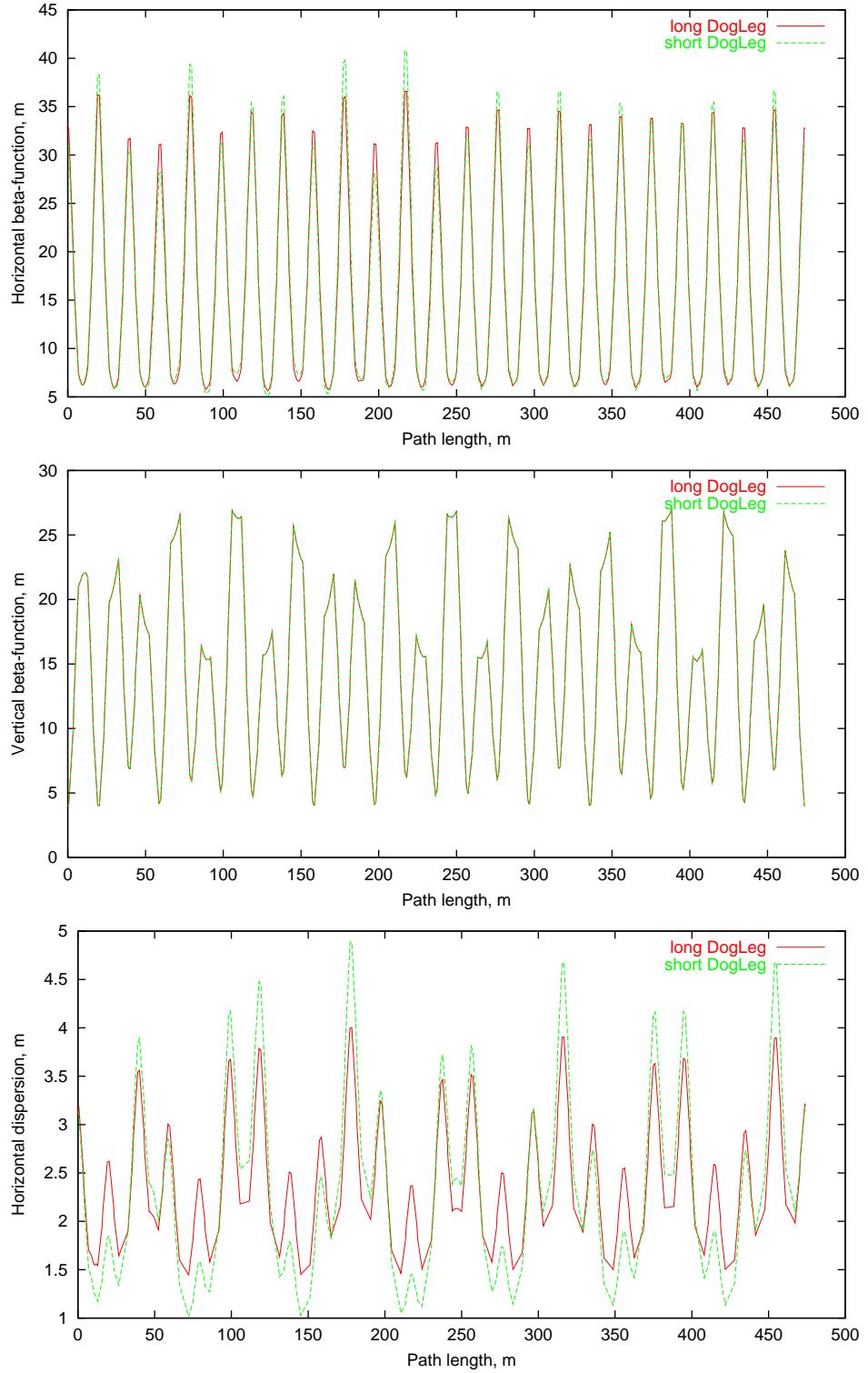


Figure 15: Fermilab Booster horizontal (top), vertical (middle) β functions and horizontal dispersion (bottom) at injection with injection bump at “long 01” straight section and with extraction bumps at “long 03” and “long 13” straight sections. With multipole harmonics in the ¹⁶A injection and extraction bump-magnets. With “short” distance between DogLeg magnets and with distance increased by 0.2 m.

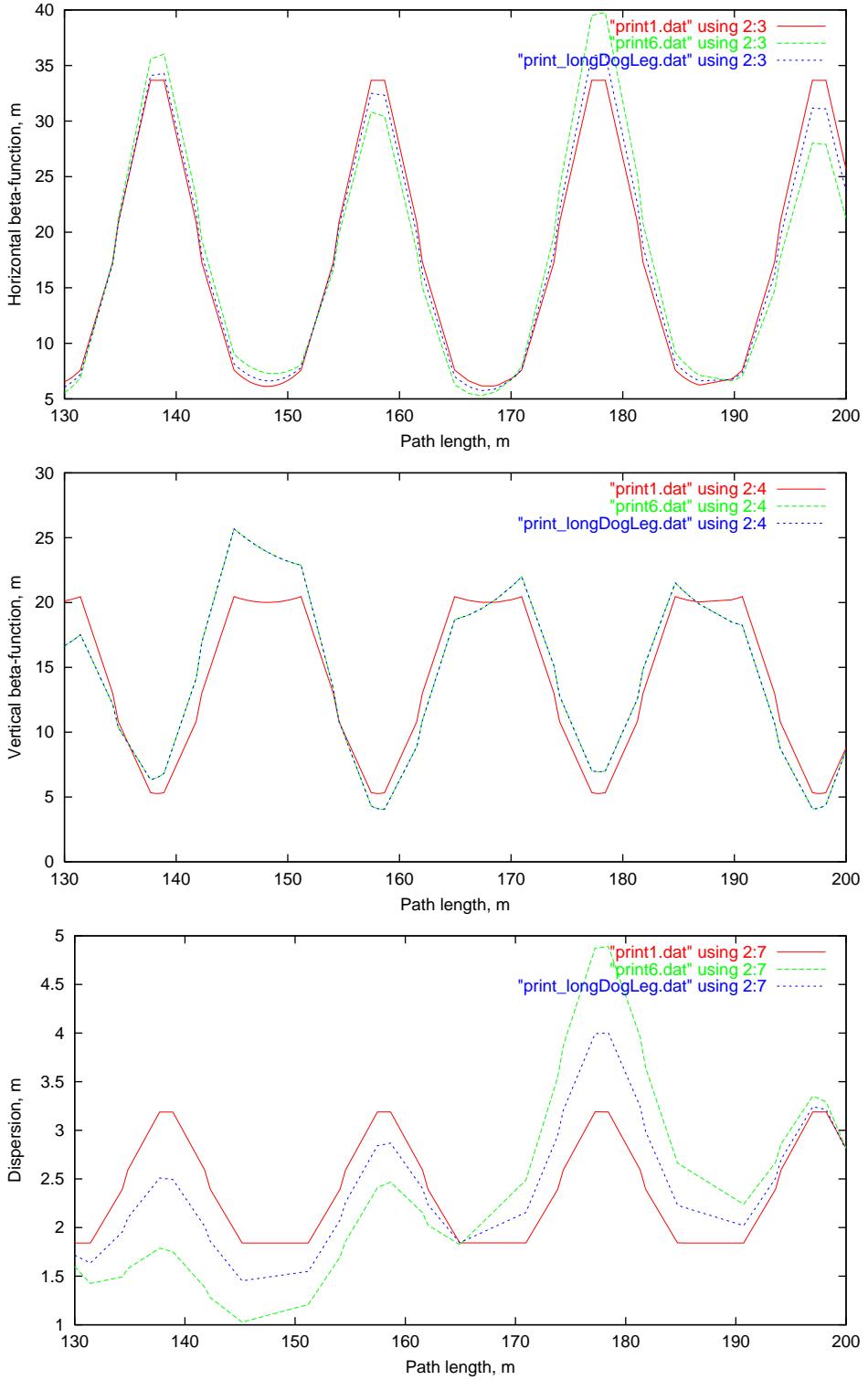


Figure 16: Fermilab Booster horizontal (top), vertical (middle) β functions and horizontal dispersion (bottom) at injection with injection bump at “long 01” straight section and with extraction bumps at “long 03” and “long 13” straight sections. With multipole harmonics in the injection and extraction bump-magnets. With “short” distance between DogLeg magnets and with distance increased by 0.2 m. Only four periods are shown.