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The length of the central yoke must be 64 mm according to STM paper, ... is appropriate!

According to BB. paper, the central trajectory is deflected for 25°

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//##### Vertex Time & Momentum Reconstruction #####  
//Magnetic field density in [T]  
---0.693---0.84-----  
double magnetic_field_density = 0.92;//0.92;  
  
//Distance from target to collimator [mm] -----  
double DistanceToCollimator = 1267.03;  
  
//Distance from target to front face of BB magnet in [mm] -----  
double dist_to_target = 1267.0 + 350.0; //1267.0 + 350.0;  
  
//Position of exit face with respect to to front face of BB magnet in [mm]  
1.0-----  
double exit_face_xc = 800.0;  
double exit_face_yc = 0.0; //10.0  
  
//Length and Height of BB magnet in [mm] 753-- 818-----  
double magnet_length = 1000.1;  
double magnet_height = 1200.0;  
  
//Exit face angle in [deg] -----  
double exit_face_angle = 20.0;  
  
//Multi Wire Drift Chamber angle in [deg] -----  
double MWDC_angle = 25.0;  
  
//Position of First MWDC plane with respect to the entrance face in [mm] 1100 in  
320-----  
double MWDC_x = 1100.0 + 150.0; //  
double MWDC_y = 300.0 + 150.0*tan(25.0*3.1415/180);  
  
//Distance from first MWDC plane fo second MWDC plane in [mm] -----  
double MWDC_dist_to_second = 757.0;  
  
//Scattering angle [rad] -----  
double scattering_angle = -75.0 * 3.1415/180.0;  
  
//Distance from first MWDC plane to Scintillation plane in [mm] -----  
double distance_to_EdE = 973.0;  
//#####
```