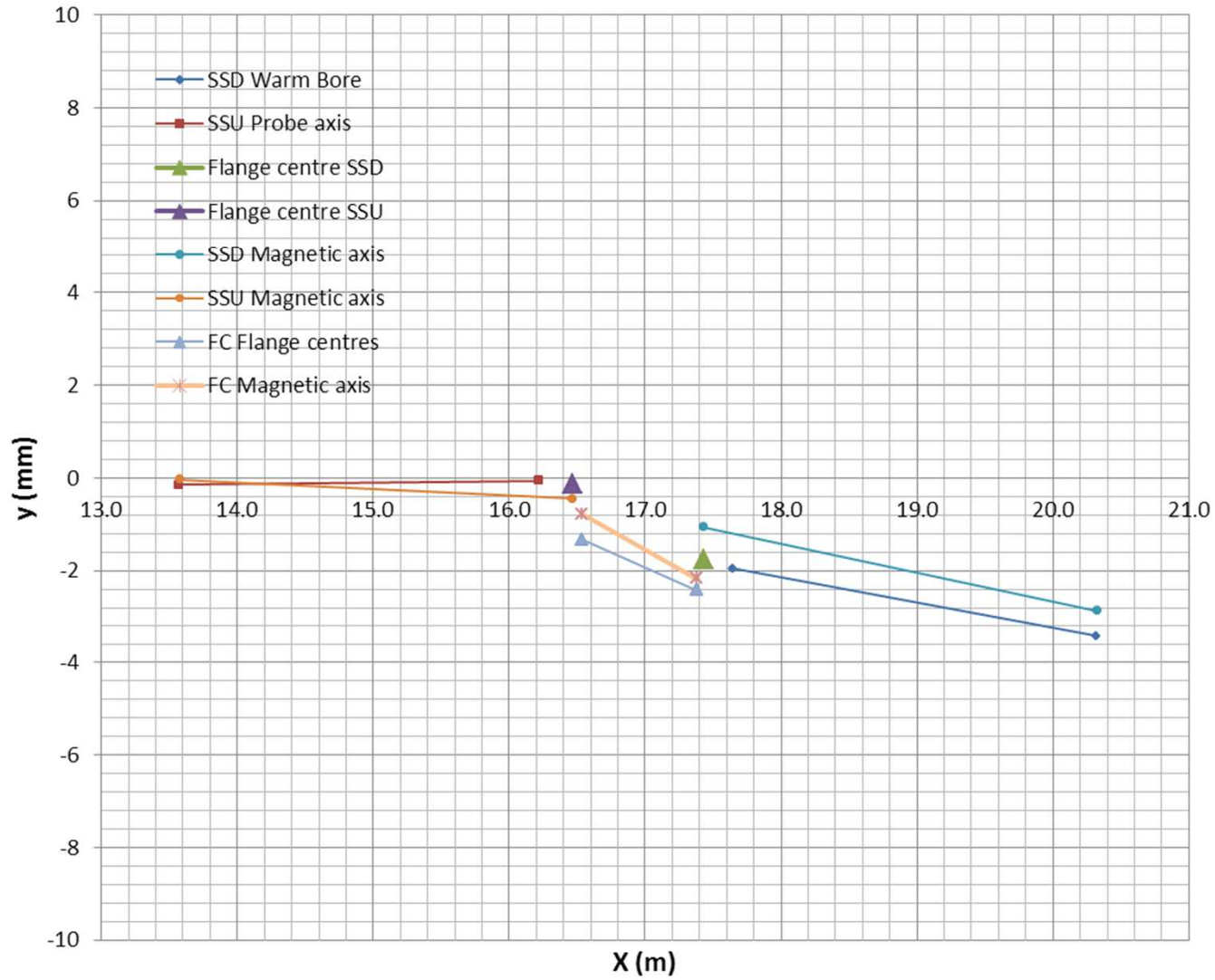


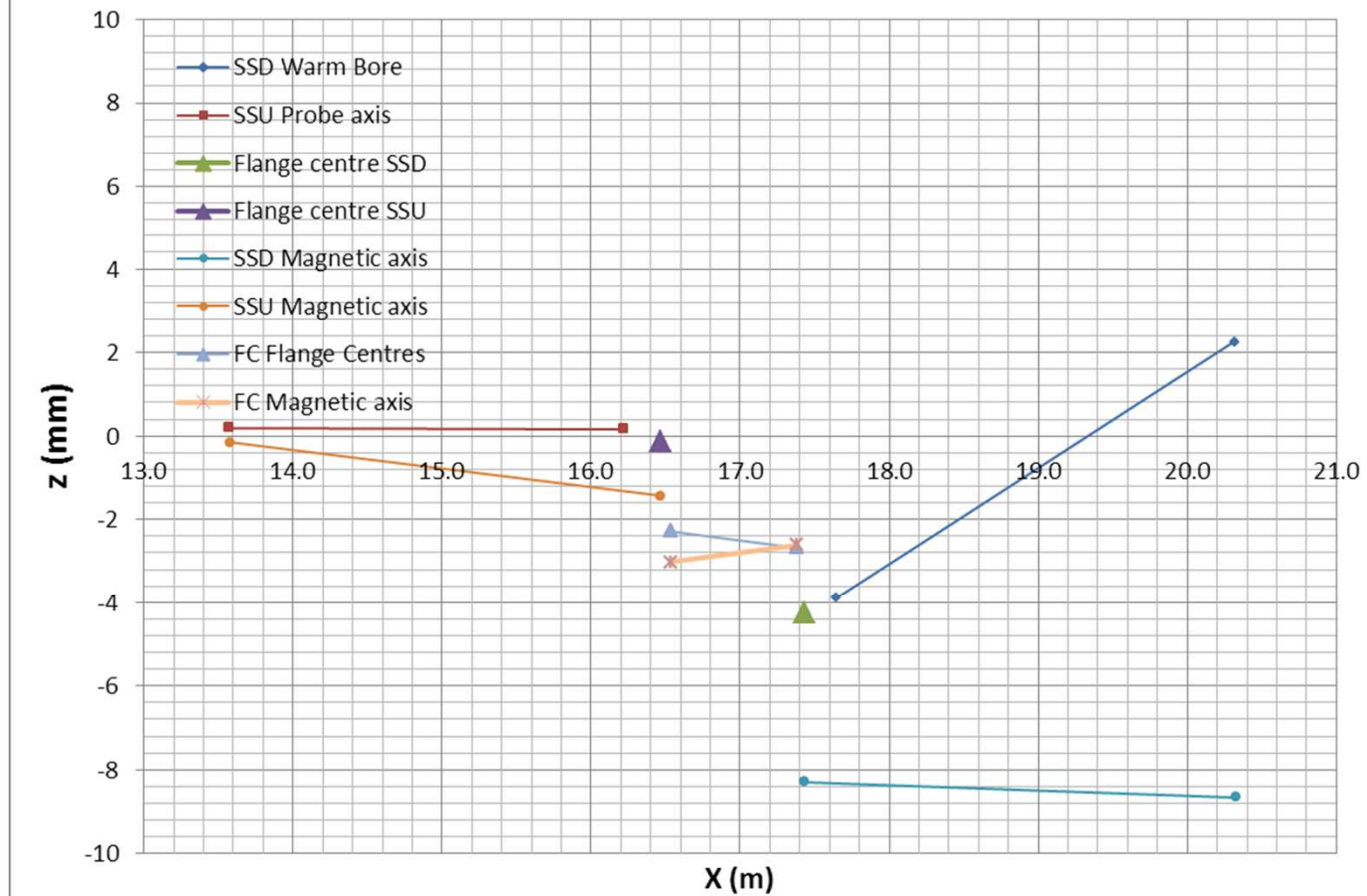
SSD Re-alignment ???

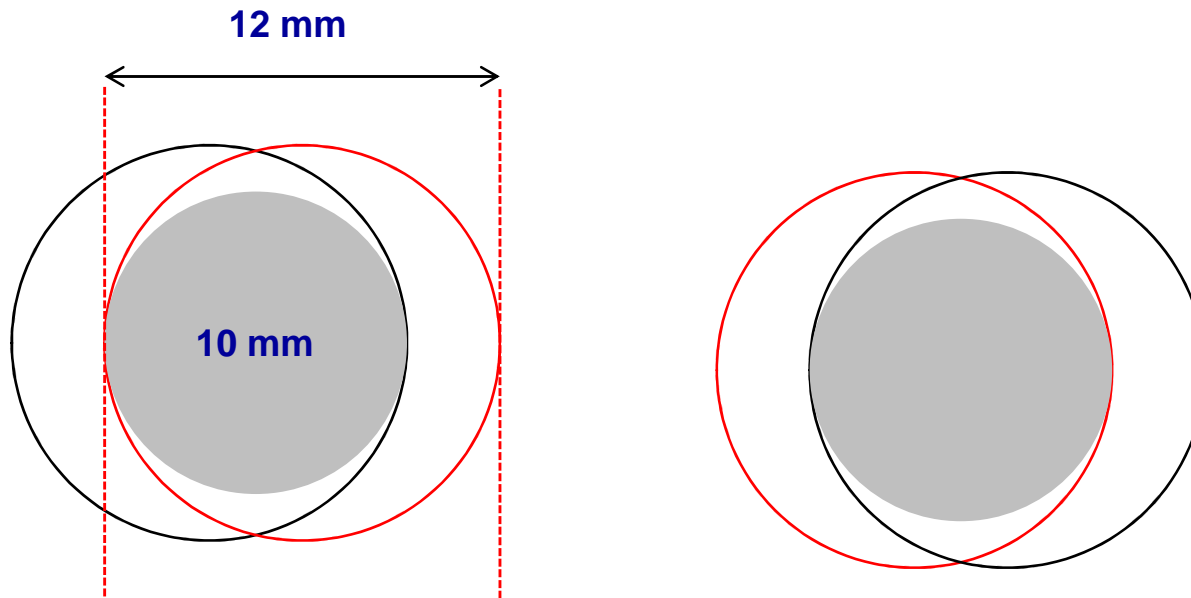
- **My understanding (*my apologies if I am mistaken*):**
 - **SSU was surveyed & *aligned* into position**
 - **By the surveyors**
 - **SSD was placed on beam line to < 1mm**
 - **No real attempt to align it**
 - **Centre of flange:**
 - **~ 2mm off in Y and ~ 4mm low in Z**
 - **We already knew SSD magnetic axis was ~4mm below flange centre**
 - **It was a struggle to couple the Bellows and the FC**
 - **The FC + Bellows had to accommodate the drop of 4mm between SSU & SSD flanges**

PLAN (HALL COORDINATES)



ELEVATION (HALL COORDINATES)





10 mm bolt in two 12 mm holes allows +/- 2mm at each interface

Four interfaces:

SSU	- Bellows
Bellows	- FC
FC	- Bellows
Bellows	- SSD

(Yes, I know that the flanges & bellows are not very well made and we won't get all that – but must have some slack →)

FLANGE CENTRES (HALL COORDINATES)

