CBM magnet – what is changed between the TDR in the BINP design

1. In the coil design:

- the iron yoke consists of pieces of less than 15 t of weight

- the coil will be wound of two pieces of the superconducting cable, each will have a length of 5 km - support struts consist of three cylinders: two of G-10 compisite, one of stainless steel.

- LHe case will have a channel for LHe flow. Two tubes for LHe will be welded for such purpose. Such design will be very important during cooling down procedure.

- calculations will be done at application of 330 tonnes of vertical force which will be appeared after charging the magnet by 1.2*686 A of the test current

- 2. Cryostat and Feed Box
- only one cryostat will be in the design, one LHe volume, one pair of current leads
- Feed Box will have fewer amounts of valves
- 3. Branch Box

- the Branch Box will have symmetrically positioned valves for independent operation of CBM and HADES detectors as shown below:

