

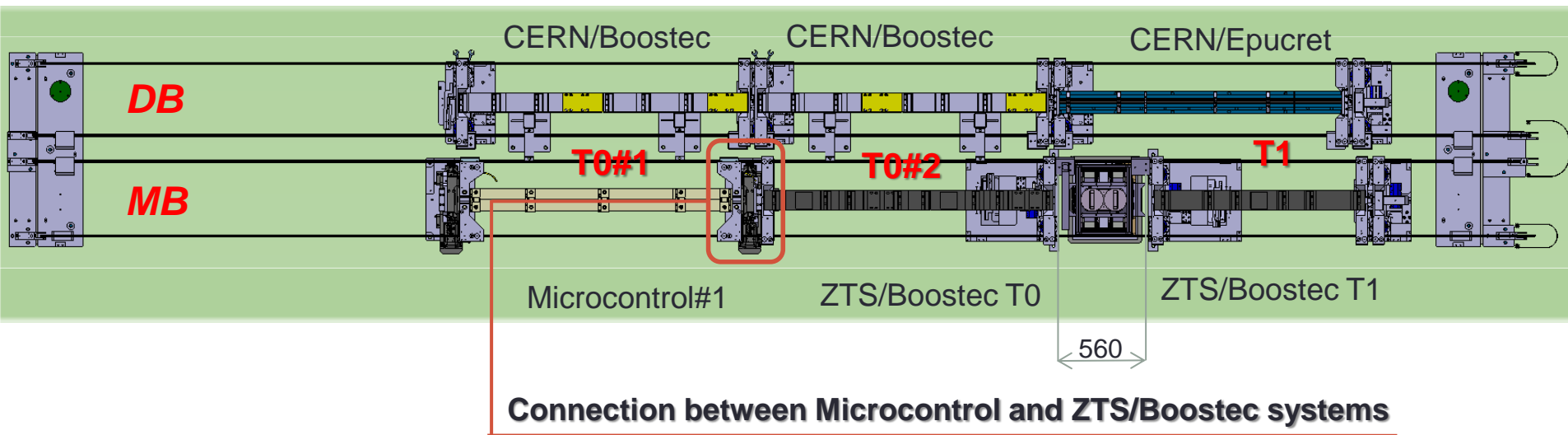
CLIC Two-Beam Module Prototype in the LAB

Update of the TBM sequence from 1-0-0 to 0-0-1

Supporting/Pre-alignment system update

Configuration 0-0-1: Option 1

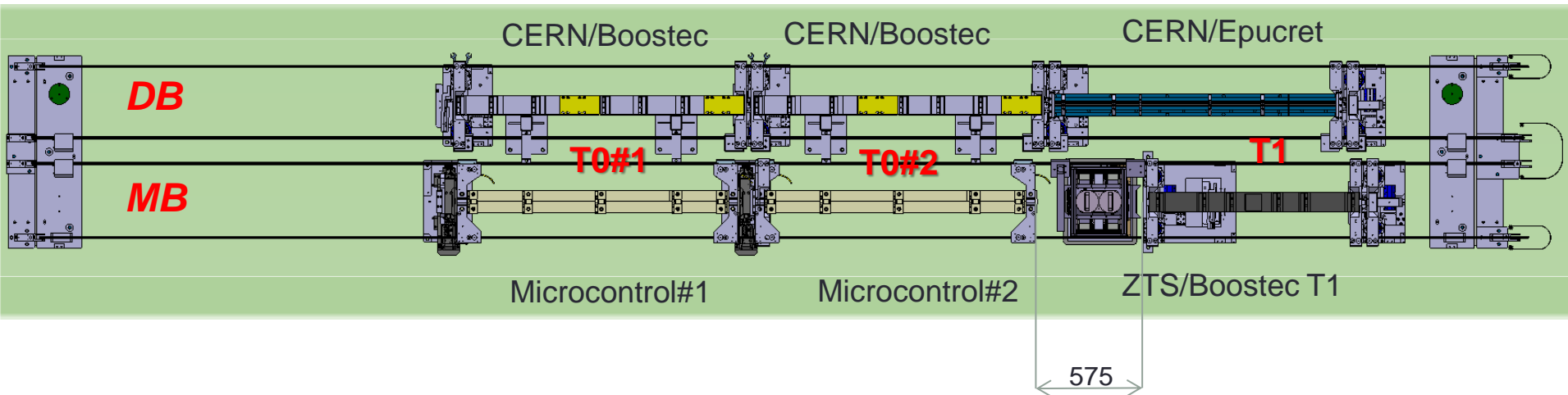
- Replace Microcontrol girder #2 by ZTS T0.
- Install MBQ and MB girder T1 (ZTS).



- It is not necessary to replace the existing TBM.
- The articulation point (Microcontrol-CERN) design should be performed.
- Shift between MB and DB for TBM T1.
- Possibility of installation 4xSAS mock-ups instead of 2m-long mock-up.

Configuration 0-0-1: Option 2a

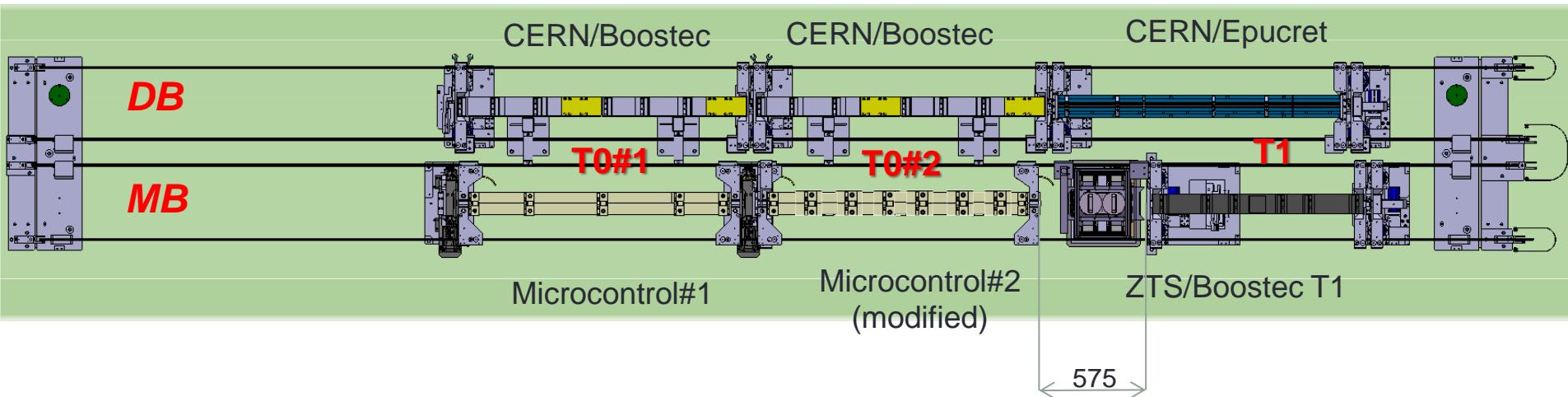
- Keep Microcontrol girder #2
- Install MBQ and MB girder T1 (ZTS)



- It is not necessary to replace the existing TBM.
- Special articulation point design is not needed.
- Shift between MB and DB for TBM T1.
- No possibility of installation 4xSAS mock-ups instead of 2m-long mock-up.

Configuration 0-0-1: Option 2b

- Microcontrol girder #2 to be extracted and modified.
- Install MBQ and MB girder T1 (ZTS)

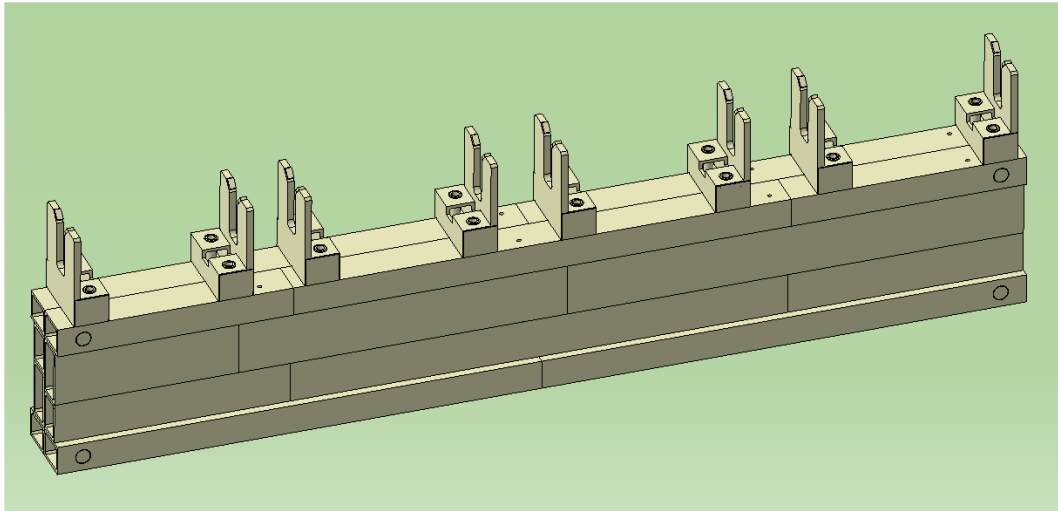


- It is not necessary to replace the existing TBM.
- Special articulation point design is not needed.
- Shift between MB and DB for TBM T1.
- Possibility of installation 4xSAS mock-ups instead of 2m-long mock-up.

Configuration 0-0-1: Option 2b

Modification of the Microcontrol girder:

1. Replace existing V-supports, add 3 new V-supports:



2. Grinding of the girder to provide beam axis straightness

The possibility to be discussed with the supplier.

All the 3 options require modification of the waveguides of the TBM T1 RF network due to shift between MB and DB.