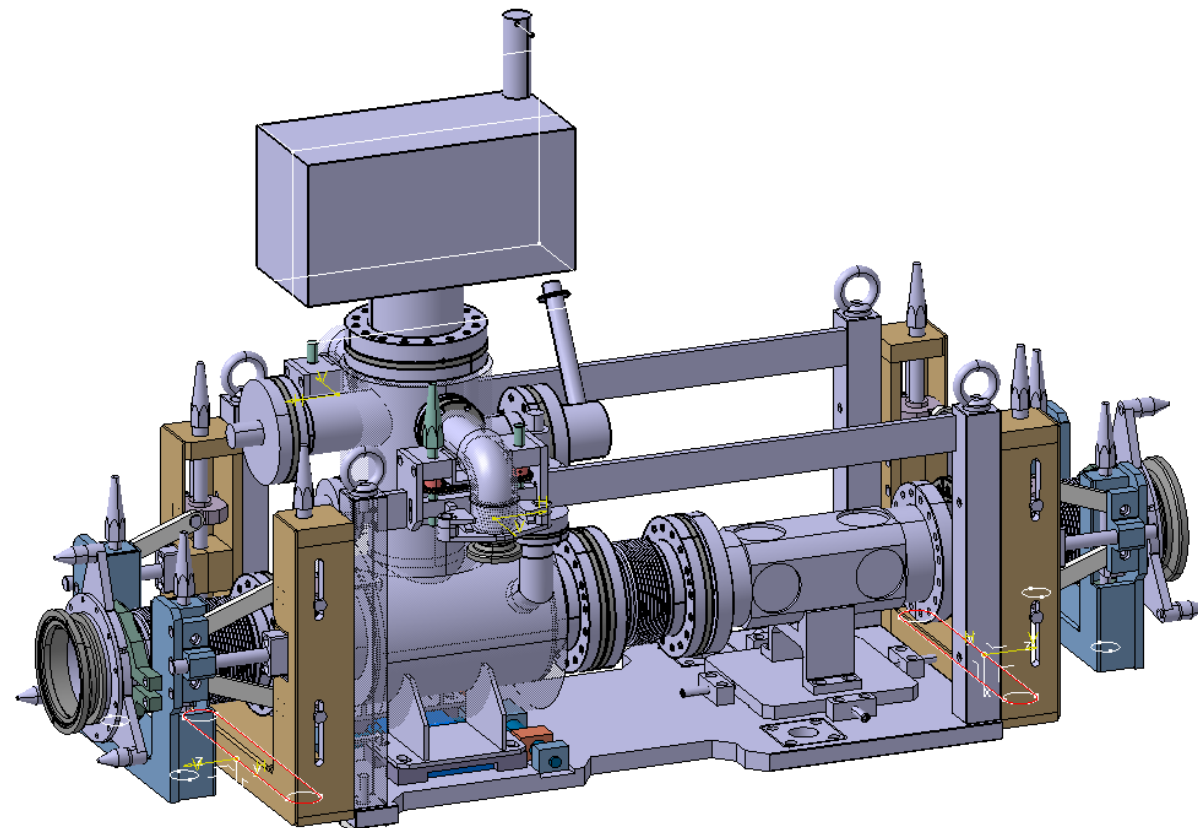
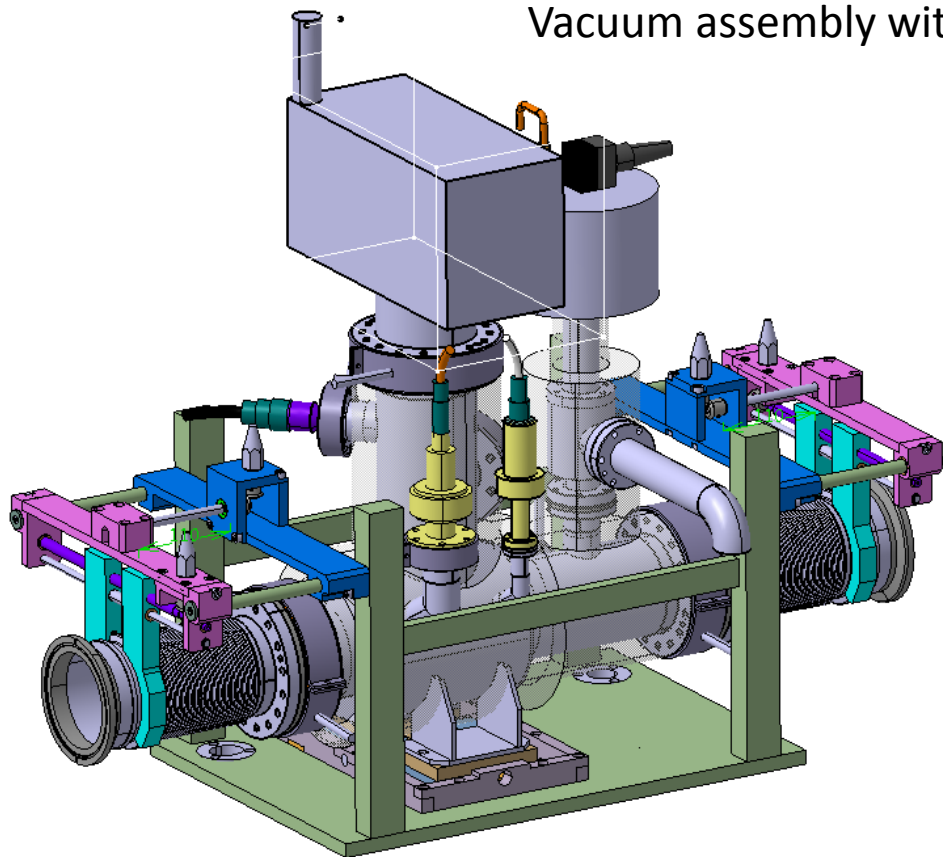


# Follow up VAX, lay-out (no BPM)

**42<sup>nd</sup> Bi-weekly meeting W8**

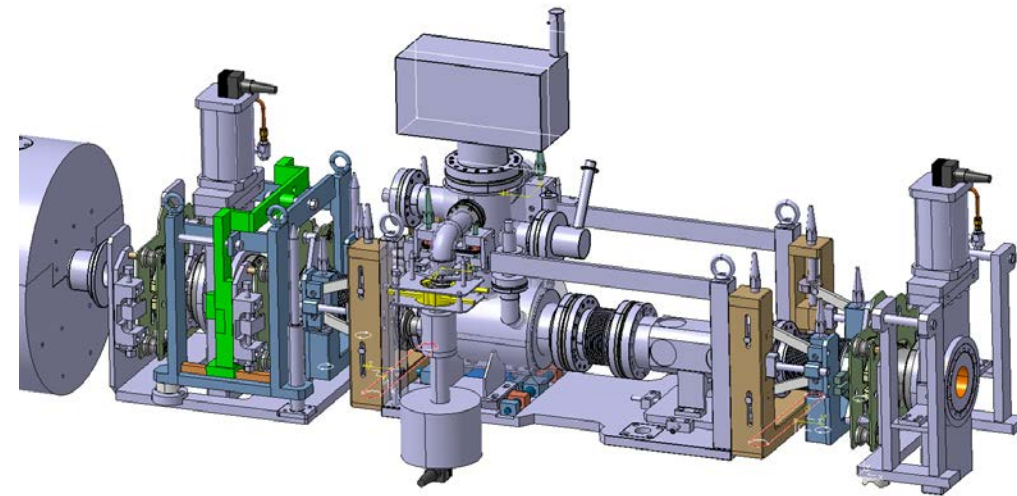
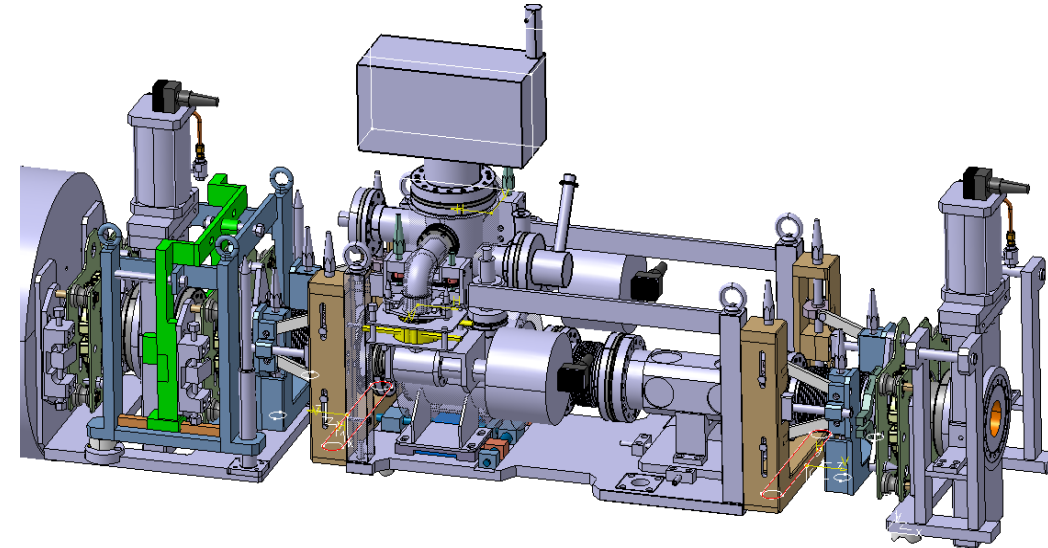
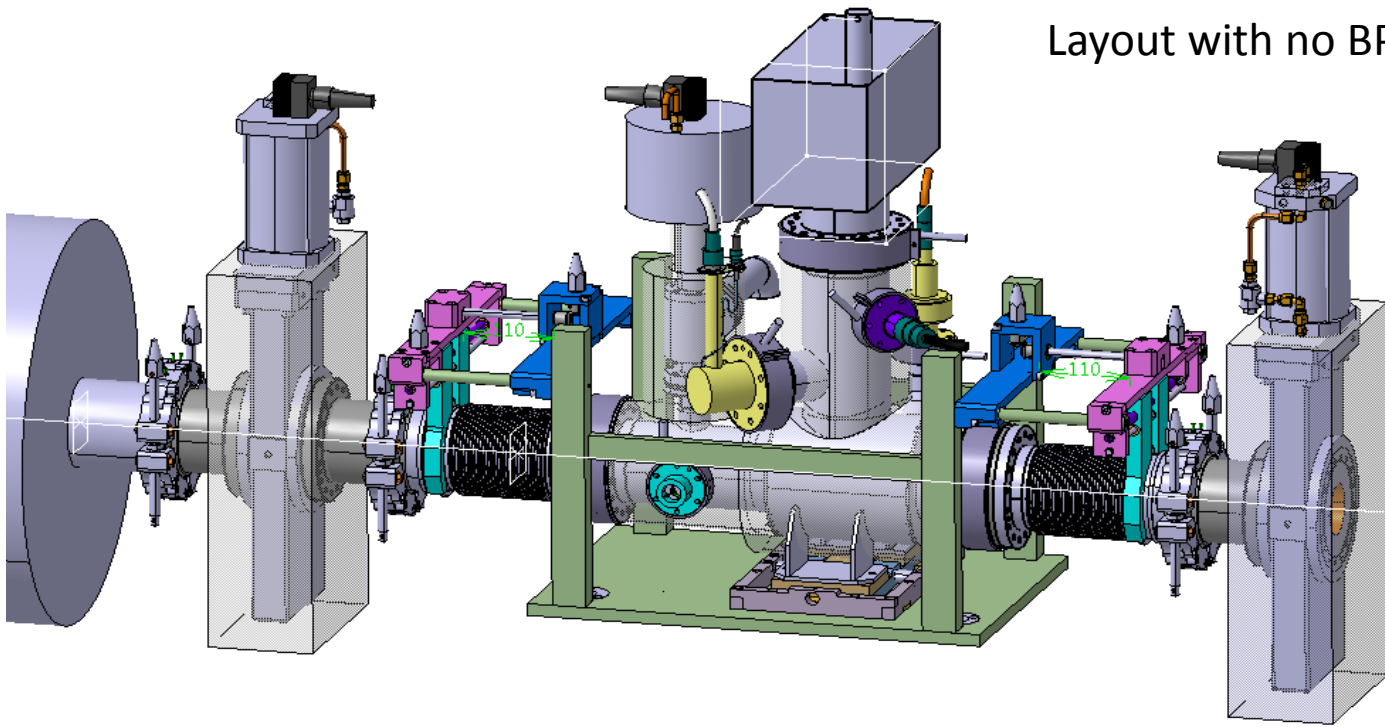
Łukasz Krzempek  
TE-VSC-DLM

## Vacuum assembly without BPM



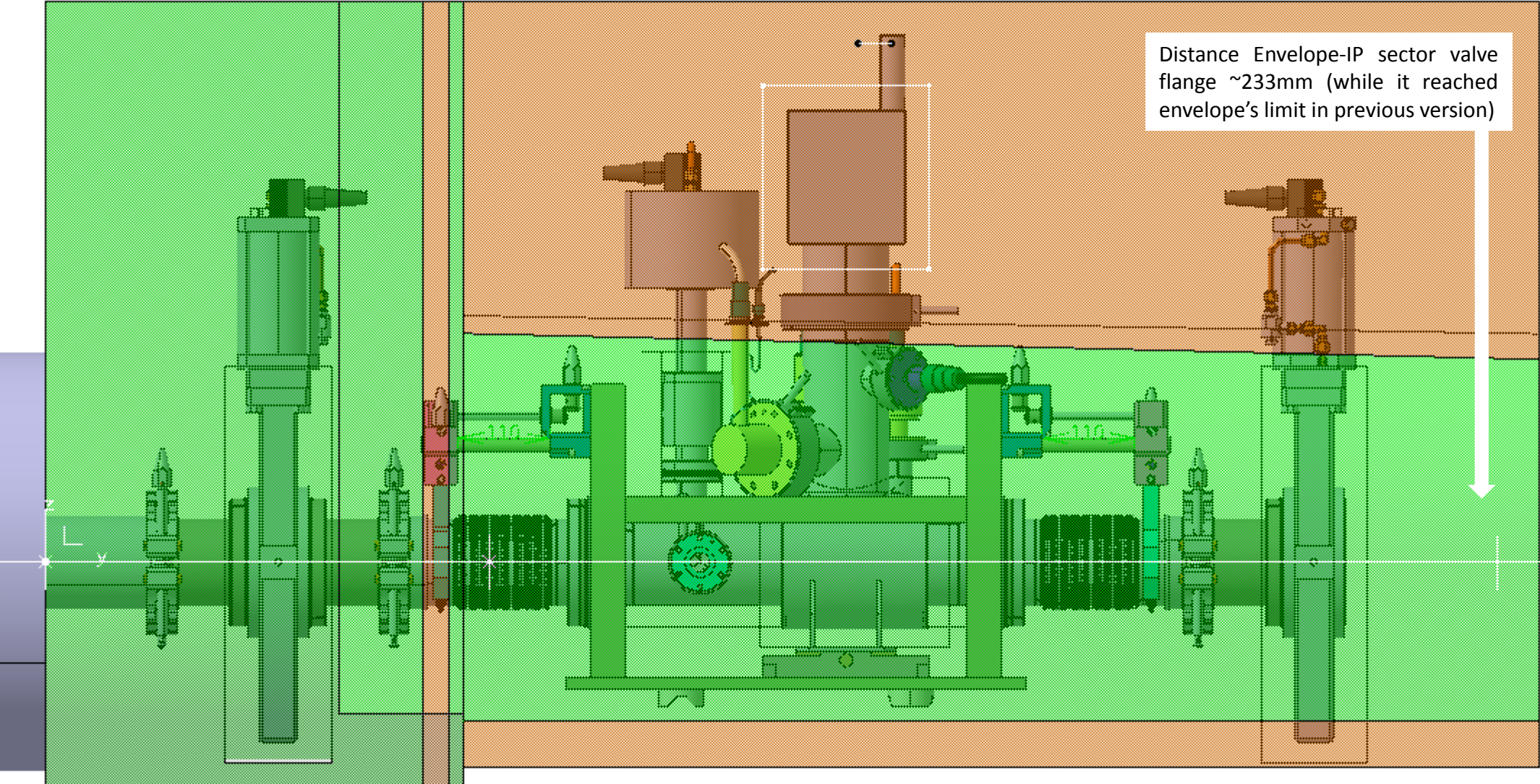
ISSUE	NO BPM	WITH BPM	COMMENTS
DISTANCE FLANGE-FLANGE	962.5 [mm]	1279.5 [mm]	Removed BPM together with 'short' bellow (407.5mm). New solution of VAX 317 [mm] shorter
HEIGHT FRAME BOTTOM-PUMP CONNECTOR	782.5 [mm]	802.5 [mm]	Better arrangements of VAX instruments in solution without BPM lets reduce height
ANGLE VALVE	1 valve instead of 2 (serviced together with VAX)	2 valves always installed on site	Injection lines should stay in DN63 as nowadays. New input regardless BPM: 1 line instead of 2, but on both sides of experiments ATLAS and CMS

## Layout with no BPM



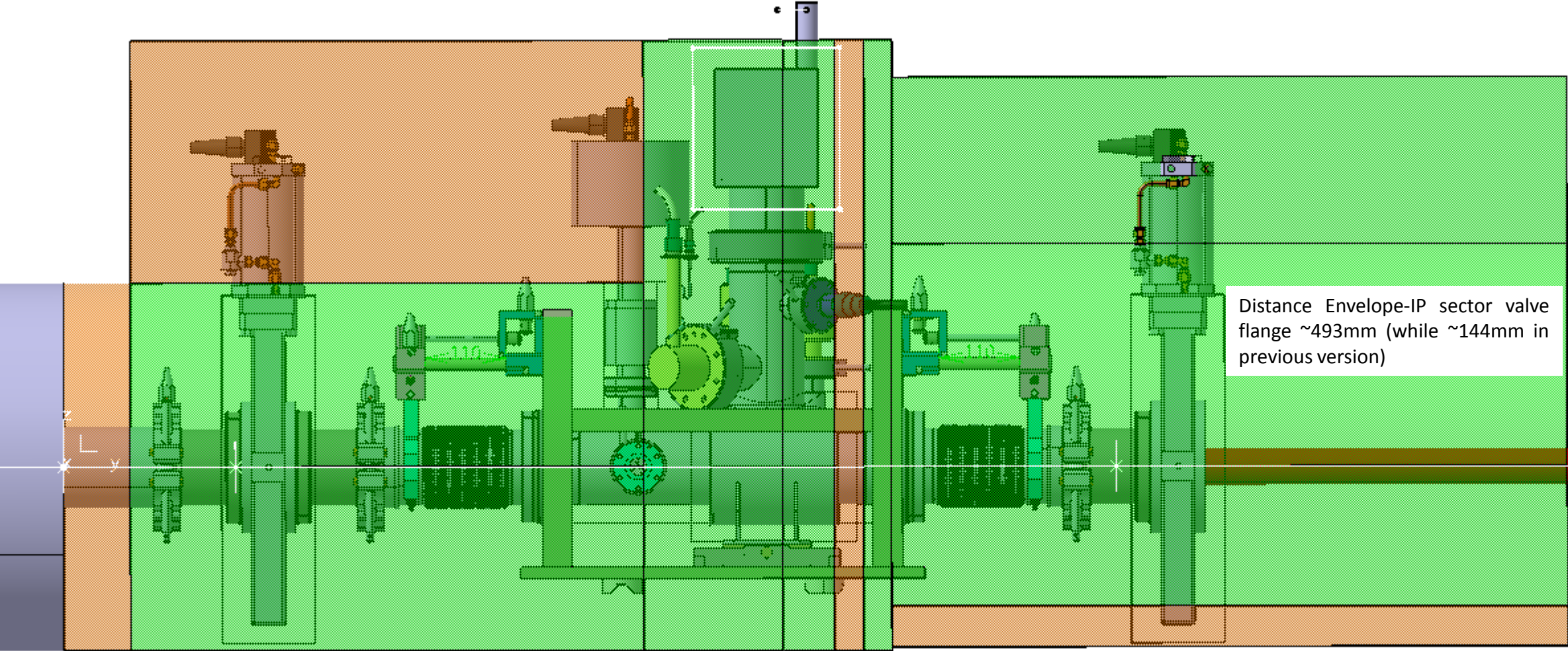
ISSUE	NO BPM		WITH BPM		COMMENTS
	ATLAS	CMS	ATLAS	CMS	
DISTANCE TAS WALL-IP SECTOR VALVE FLANGE	1556 [mm]	1556 [mm]	1754 [mm]	1904 [mm]	The distances in previous version were determined by presence of both angle valves, aimed for permanent installation in caverns (TAS WALL-TAS FLANGE: 70mm for ATLAS and TAS WALL-TAS FLANGE: 70mm+150mm of shift in CMS)
Present version with one angle valve, aimed for service with VAX , allows to locate equipment at equal distance which is: TAS WALL-TAS FLANGE: 140mm					

# General view with respect to available space in ATLAS



Distance Envelope-IP sector valve flange ~233mm (while it reached envelope's limit in previous version)

General view with respect to available space in CMS



Distance Envelope-IP sector valve flange ~493mm (while ~144mm in previous version)

New Smarteam numbers:

ST0789690 - VAX ASSEMBLY

ST0789839 - SECTOR VALVE ASSEMBLY (TAS SIDE)

ST0789876 - SECTOR VALVE ASSEMBLY (IP SIDE)

ST0789898 - LAYOUT IN ATLAS

ST0789906 - LAYOUT IN CMS

Ongoing:

1. New alignment strategy
2. Chains connection development
3. Sector valves assemblies