



WP8 - VSC Mini TAN integration

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OUTLINE

- Mini TAN integration.
- Actual layout LSS L8 D2 area.
- Possible solution.
- Conclusions.

Mini TAN integration

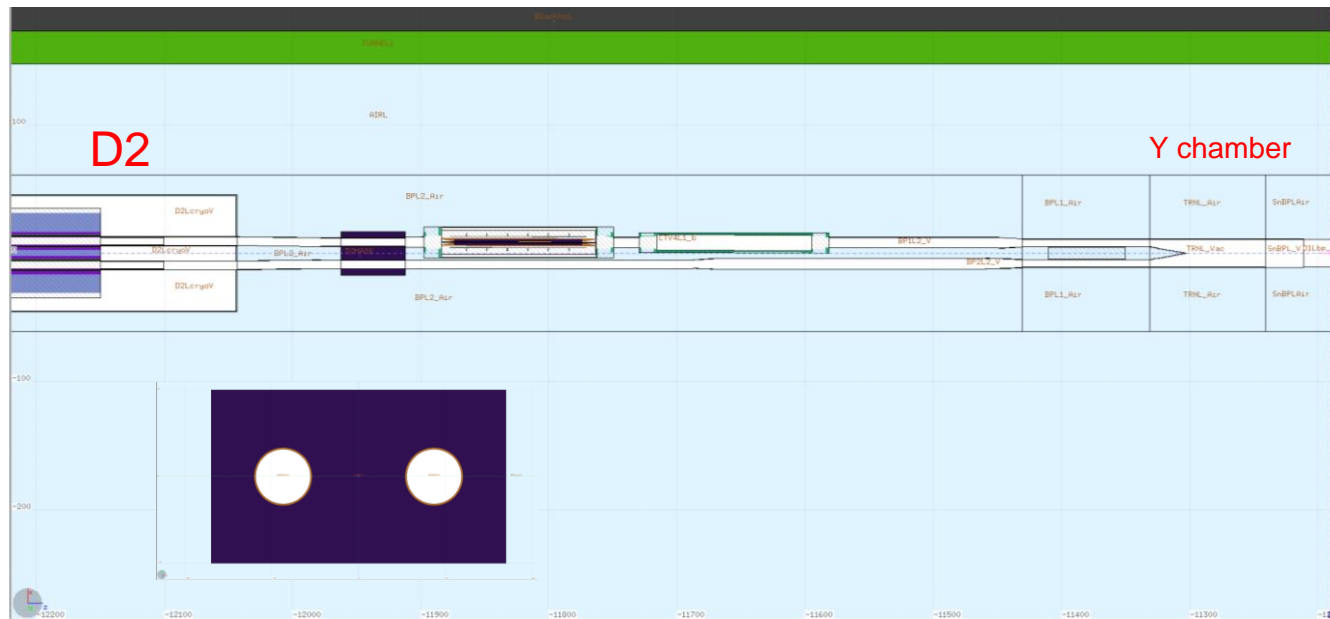


Mini TAN integration

To protect D2 Mini TAN has to be integrated on its right side of LSS L8.

Mini TAN specifications:

- Dimensions: 340 mm x 200 mm and 63mm ID aperture.
- 50 cm long Inernet mini-TAN at ~1.9 m from the D2 IP-face.



Courtesy of Francesco Cerutti

absorbing 16 W

2.5 W in the TCTH

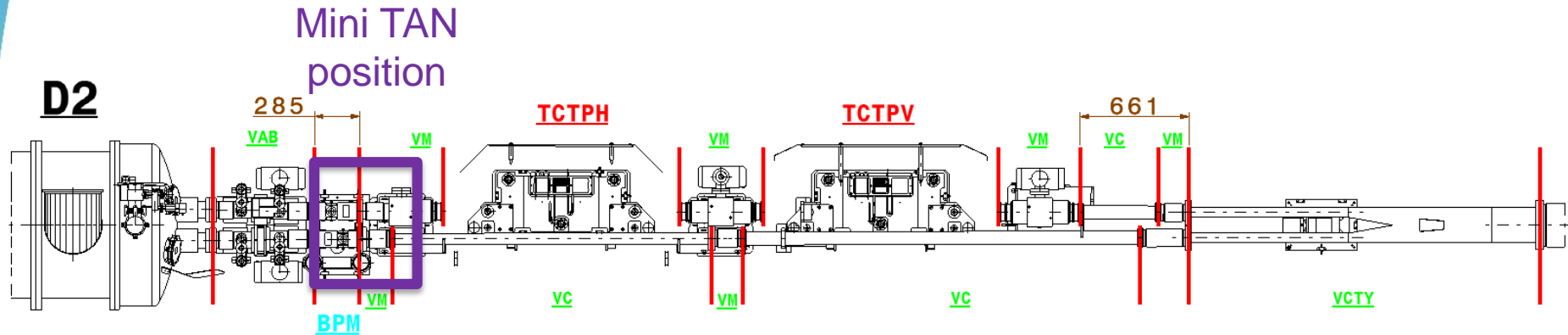
1.5 W in the TCTV

Vincent Baglin – Pablo Santos Díaz

Actual layout LSS L8 D2 area

Actual layout LSS L8 D2 area

- Nowadays the layout on the left side of point 8 is the following:



To be checked and compared with the vacuum layout.

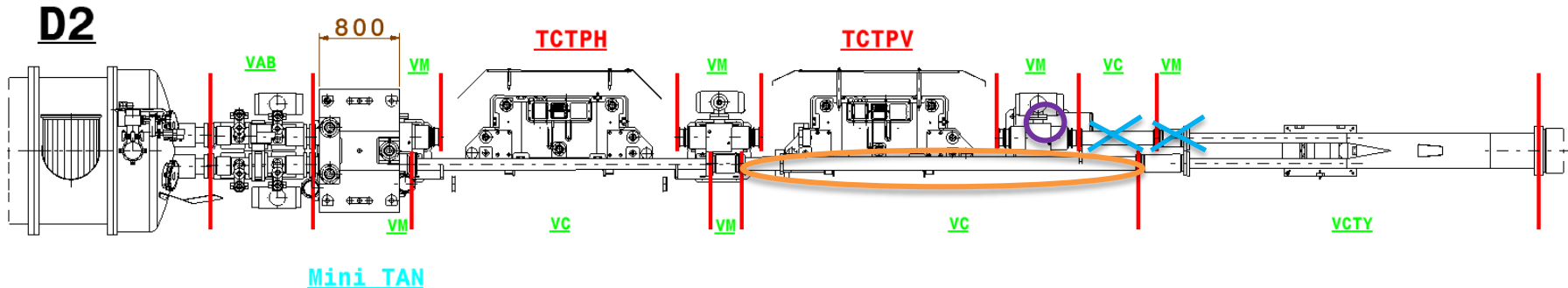
ST number: ST0762143.

Possible solution



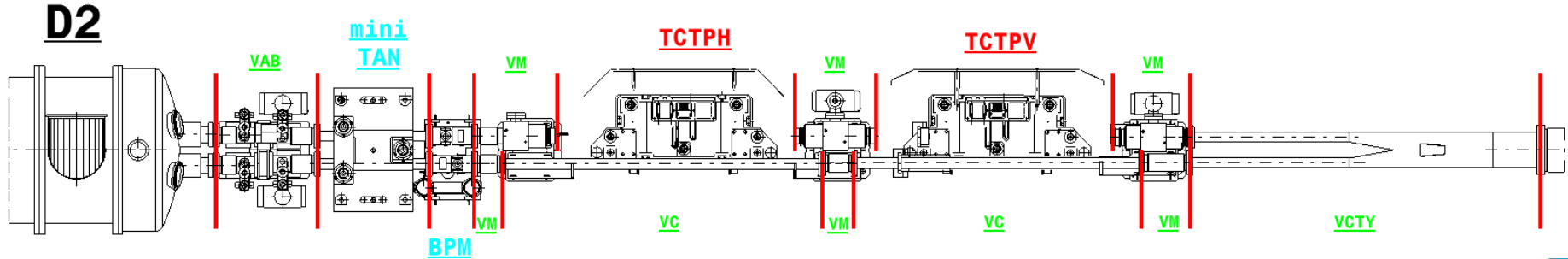
Possible solution

- To install Mini TAN: 285 mm (BPM length) + (700-285) [mini TAN-BPM room shared] of room is required.
 - Room required: ≈ 700 mm.
- Possible solution \rightarrow room gained 661 mm. \rightarrow to be checked with Vincent Baglin.
- Actions required:
 - Move collimators (TCTPH and TCTPV) $700+285= \approx 985$ mm
 - Move BPM: 700 mm.
 - Remove Vacuum module and Vacuum chamber \rightarrow space gained: ≈ 661 mm. ✕
 - Cut vacuum canber 681 mm. ●
 - Rotate 180° vacuum support and updated it. ●



Possible solution: new layout

- To install Mini TAN → Room required: ≈ 700 mm.
 - Possible solution → room gained ≈ 661 mm.
- vacuum modules would be compressed 39 mm → **to be checked and studied with Vincent Baglin.**



Conclusions

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- To install Mini TAN → Room required: ≈ 700 mm.
- Possible solution → room gained ≈ 661 mm.
→ vacuum modules would be compressed 39 mm → **to be checked and studied with Vincent Baglin.**
- Actions required:
 - Move collimators (TCTPH and TCTPV) $700+285 = \approx 985$ mm
 - Move BPM: 700 mm.
 - Remove Vacuum module and Vacuum chamber → space gained: ≈ 661 mm.
 - Cut vacuum chamber 681 mm.
 - Rotate 180° vacuum support and updated it.



***THANK YOU FOR YOUR
ATTENTION!!!***

