# 3D - model - 25.05.2025



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Thanks to Tony Nasos' kind assistance, we were able to implement the SciFi model into the Magnet Station model. The conclusions are shown on the following slides.





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Due to the very limited space, the cable routing from the Magnet Station needs to be analyzed.

 This should be one of the tasks addressed before the panel extraction design, in order to properly plan the cable disconnection process prior to sliding out the panels.



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• The SciFi opening is not symmetrical, but this does not pose a problem for panel extraction, as it does not interfere with the panels.





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 Based on the panel model proposed in April (approved at that time by Nicolas Schmidt), the panels on the right side can be slid out along a single rail, allowing for the removal of 6 panels without any issues (the same applies to the lower panels on the left side). Unfortunately, the upper panels on the left collide with structural elements of SciFi, and therefore can only be removed one by one.







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 According to the April panel model, there is space to extract only one panel.

collision with a structural element of SciFi





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## 2. Proposal for sliding panels using linear guides







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2. Proposal for sliding panels using linear guides



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## **2.** Proposal for sliding panels using linear guides



Additional component for mounting the sliding element to the panel frame

# **CONCLUSIONS:**

•The frame dimensions need to be adjusted to ensure that the installation of the linear guides does not interfere with other components of the Magnet Station.

•Each panel will require its own sliding element, which may complicate the panel extraction process.



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### 3. Frame repositioning according to the comments

According to the comments from Hubert van Hecke:

•The lower panel should be positioned so that it is parallel to the plane defined by the three reference points, as shown below:





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### 3. Frame repositioning according to the comments

According to the comments from Hubert van Hecke:

• The frames need to be parallel to the horizontal, so the panels don't go sliding when we install them





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### **3.** Frame repositioning according to the comments





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## **CONCLUSIONS:**

•Due to the new frame positioning, we kindly ask for confirmation that it complies with the requirements (the model **Frame\_26.05.2025.stp** and **Frame\_MS\_26.05.2025.stp** are attached to the presentation.).

•Given the updated frame location, we request that the panels be modeled using the frame as the reference plane (for defining the panel angles).

•Only after the above points are fulfilled can we proceed with modeling the frame sliding mechanism.

•Please confirm whether the 9 mm clearance is acceptable, or if it needs to be increased. If an increase is required, would 20 mm be sufficient (slide number 12)?



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