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	Final	Data: 2024-06-14 version: 1.1

Mechanical assumptions for the design of the BL-02BM experimental beamline

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1. Subject description

This document describes the assumptions for the design and construction of the experimental beamline section in the BL-02BM sector, not included in the MECH1 mechanical supplement.

The descriptions in the document refer to the DWG drawing named:

- "MECH3-BM02 Appendix - Dimensions of the BM02 Beamline area.dwg".


2. Area including mechanical supports and technical infrastructure

2.1. Description of the beamline area

Experimental hall – area available to users during synchrotron operation. This area will contain the remaining components of the beamline equipment used to transmit the photon beam to the final station, together with the final station. The experimental beamline is located on the extension of the 02BM straight section of the accumulation ring, and the entire research line infrastructure from the outer wall of the accumulation ring to the most protruding point can have a maximum length of 41 851 mm.

Detailed dimensions of the experimental line are shown in Figure 1.

The experimental beamline areas are marked in the drawings by ANSI31 hatching. Dimensions in red are related to the photon beam from the bending magnet, while dimensions in blue describe the research line area.

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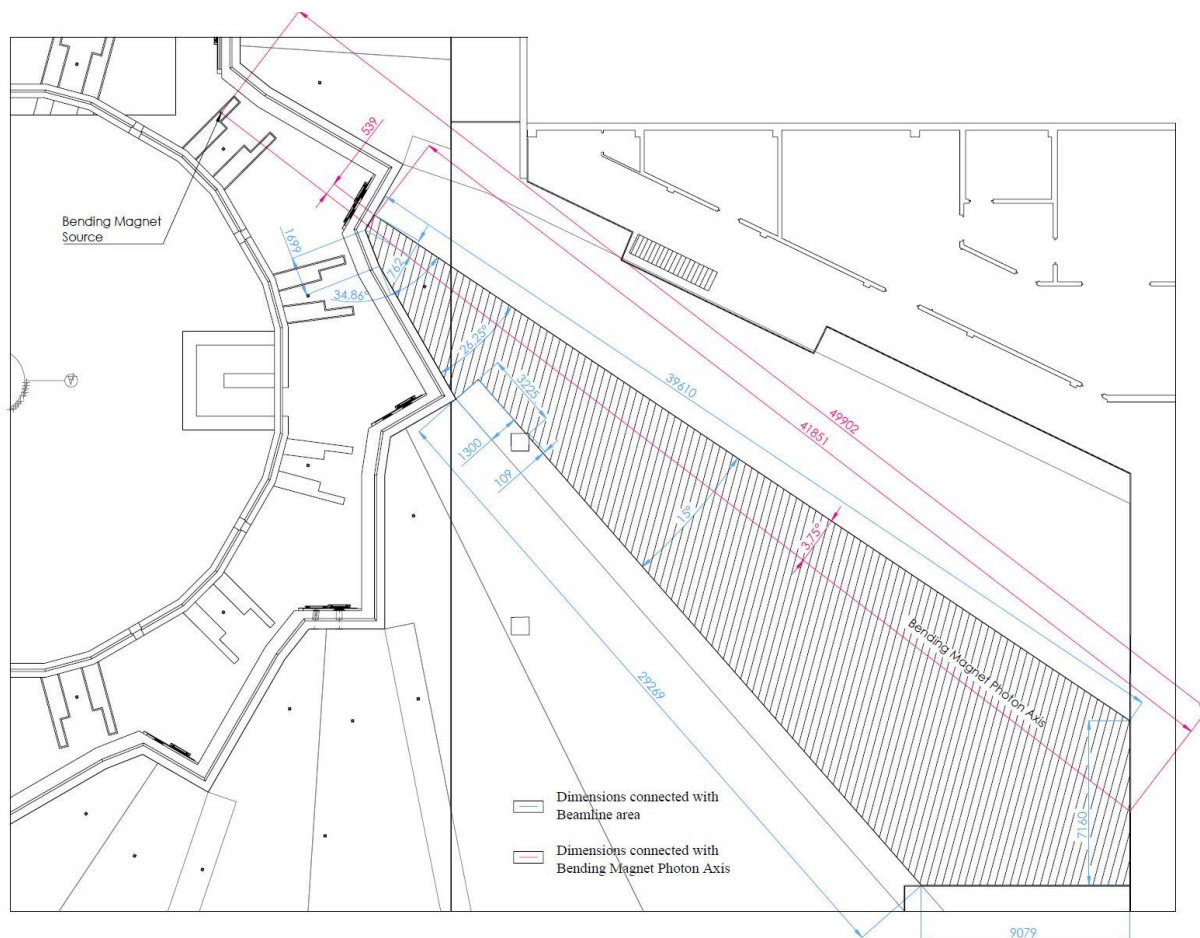


Fig. 1. Projection of a fragment of the experimental hall with characteristic dimensions.

For detailed information of Figure 1, a .dwg file has been attached: "Annex MECH3-BM02 - Dimensions of the BM02 Beamline area.dwg"

NOTE: If it is necessary to place devices outside the designated area, the Contractor must send a 3D STEP (and/or IGES) model and a DWG drawing as soon as possible to check for a potential collision.