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Target systems design for a high intensity facility in the CERN's ECN3 area

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A new high intensity fixed target facility could be accommodated at CERN by fully exploiting the Super Proton Synchrotron. Multiple physics experiment proposals such as BDF/SHiP, NA62-BD, HIKE and SHADOWS are being considered. Amongst the different possibilities to locate such experiments and their respective target complex at CERN, the ECN3 hall in the North Area has been selected for further study. This contribution will detail the status of the design and physics optimisation of the target systems proposed for a high intensity upgrade in the CERN's North Area ECN3. Radiation protection considerations, remote handling strategy, services supply, installation, operation, maintenance, and decommissioning aspects are herein discussed.

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Footnotes

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Yes

Primary author: FRANQUEIRA XIMENES, Rui (European Organization for Nuclear Research)

Co-authors: AHDIDA, Claudia (European Organization for Nuclear Research); BERNHARD, Johannes (European Organization for Nuclear Research); BRUGGER, Markus (European Organization for Nuclear Research); CALVIANI, Marco (European Organization for Nuclear Research); ESPOSITO, Luigi Salvatore (European Organization for Nuclear Research); FRASER, Matthew (European Organization for Nuclear Research); GRECARD, Jean-Louis (European Organization for Nuclear Research); JACOBSSON, Richard (European Organization for Nuclear Research); KRZKEMPEK, Lukasz (European Organization for Nuclear Research); MARTIN RUIZ, Jose Maria (European Organization for Nuclear Research); MAZZOLA, Giuseppe (European Organization for Nuclear Research); NIANG, Samuel (European Organization for Nuclear Research); NOWAK, Elzbieta (European Organization for Nuclear Research); RAMJIWAN, Rebecca (European Organization for Nuclear Research)

Presenter: MARTIN RUIZ, Jose Maria (European Organization for Nuclear Research)

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