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Production of slow extracted beams for CERN's East Area at the Proton Synchrotron

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Since the upgrade and renovation of the East Experimental Area at CERN during Long Shutdown 2 (LS2: 2019 - 2021), demand has increased for slowly extracted beam from the CERN Proton Synchrotron (PS). The East Area is a multi-user facility carrying out a diverse experimental physics programme. It requires a wide range of slowly extracted beams to be delivered by the PS. This contribution summarises the gained understanding, progress and improvements made since LS2 in the slow extraction of both proton and ion beams. Furthermore, it describes the production of low intensity, variable energy, heavy-ion beams for a collaboration between CERN and the European Space Agency, striving to establish a novel and flexible high-energy heavy-ion radiation test facility.

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Footnotes

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Yes

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