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Status and prospects of the SPS magnet consolidation program

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The 744 main dipole and 216 main quadrupole magnets constitute the bending and focusing system for the SPS ring. These magnet families are among the most populated of the SPS complex with the lowest ratio of spares to magnets in operation. After more than 35 years of operation these magnets need particular attention. Therefore, analysis is continuously performed to detect issues which may lead to poor reliability and adapted consolidation programs are set up to prevent significant down time. The status of the ongoing consolidation programs and update of the results from recent investigations and subsequent consequences will be presented.

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