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The NEXT-100 Radiopurity campaign: measurements and results

NEXT-100 is a double beta decay neutrino-less ($2\beta^{0\nu}$) experiment that uses a time projection chamber with 100kg of high-pressure xenon gas (15 bar) enriched in the ^{136}Xe isotope to 90%. It is currently under construction. It will be running in the Canfranc Underground Laboratory (LSC) under the Pyrenees in Spain.

NEXT-100 has to operate with extremely low levels of background from radioactivity. This poster will present the experiment's radiopurity screening campaign. It is based mainly on measurements with the High Purity Germanium detector farm of the LSC; frequent complementary studies using GDMS and ICPMS techniques are also made. The campaign is well advanced. We will summarize the results so far detailing those most relevant to the physics of NEXT-100. The latter includes the measurements program of its 60 very low background PMTs Hamamatsu R11410-10.

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