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A new cylindrical drift chamber for the MEG-II experiment

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A new cylindrical drift chamber for the MEG-II experiment is currently under construction. The chamber is used to track low momentum positrons from the μ^+ decays to search for $\mu^+ \rightarrow e^+\gamma$ events. The chamber is made of very small drift cells, placed in stereo configuration for longitudinal hit localisation and operated in a helium-isobutane gas mixtures. The use of thin aluminium wires and the light gas mixture set the total radiation length of the chamber to only $1.6 \times 10^{-3} X_0$ allowing for a momentum resolution of ≈ 120 keV/c .

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