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A Micromegas detector for 222Rn emanations measurements

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The 222Rn emanation has significant contribution in the overall background for rare event searches experiment, in order to measure this emanations a high sensitivity detector have been designed with the aim of a minimum detectable activity of 100 μBq. The detection method is the electrostatic collection of the 222Rn daughters on a Micromegas detector. Using a chamber with a volume of 21.2 l for the collection of 218Po and 214Po progeny of 222Rn and a 12 x 12 cm2 pixelized Micromegas for the α detection. The advantages of the Micromegas detectors are the low intrinsic radioactivity and the track reconstruction of α's, having excellent capabilities for event discrimination.

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