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## **Towards a PMT based optical readout GEM TPC - first results**

The design and performance of a small TPC fitted with an optical double GEM readout are presented. A prototype with a volume of 0.5 liter was built and the energy, position and track angle are determined by charge division of the signals of the four PMT array. Results obtained using the  $^{241}\text{Am}$  source alpha tracks in a mixture of Ar-5%CF<sub>4</sub> are reported. Finally, possible extensions and applications of this type of detector are also presented.

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