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Research on Micro-Patterned Gaseous Detectors in Brazil

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This presentation summarizes the research on the developments of Micro-Patterned Gaseous Detectors (MPGDs) conducted at the High-Energy Physics Instrumentation Center of the University of São Paulo (HEPIC-USP). We are exploiting different techniques for developing local expertise to produce Gas Electron Multiplier (GEM). Besides, the search for a deeper understanding of the degradation and aging has revealed new research opportunities on radiation hardness and the choice for better options. Finally, GEM-based sensors' applications produce an enormous potential for technology transfer and interdisciplinary work.

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