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Multi-Wire gas-filled Electron Multiplier (MWEM). COMSOL results for Crossing wires (CWEM) and Parallel wires (PWEM) options with single and double multiplication gaps

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Idea of the Multi-Wire gas-filled Electron Multiplier (MWEM) was proposed 20 years ago. Such type of detector was not widely implemented due to technological problems of its realization. At this moment new technology widely used for manufacture of MPGDs (GEM, THGEM, RETGEM, WELL, RPWELL, SRWELL, μ -RWELL, FTM). COMSOL simulation results are presented for 2 options of MWEM with single and double multiplication gaps. Proposed options will be tested at JINR and PNPI.

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