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Development of Micromegas detectors for neutron time-of-flight measurements

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Several types of Micromegas based detectors have been developed and are being used for neutron time-of-flight measurements in facilities like n_TOF at CERN. A transparent neutron flux monitor is installed permanently in the neutron beam to measure the incident neutron flux, while a similar device is being developed for the NFS facility at GANIL. An XY-strip and a pixelized Micromegas have been used to determine the spatial distribution of the neutron beam as a function of the neutron energy. Other Micromegas detectors have been used for fission and (n,α) measurements and for fission tagging in the neutron capture measurements. The performance of those detectors will be presented here.

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