

# A TPC readout with GEMs, pads and Timepix

## Summary

A new readout scheme for a TPC is proposed: a GEM-stack for amplification, pads as segmented anode and a pixel chip (the Timepix) for digitization and readout.

This way the anode pads can be much smaller than in current readout schemes, resolving electron clusters from the ionization process. This would allow for improved double hit and track resolution as well as improved particle identification by cluster counting compared to  $dE/dx$ .

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