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SRS VMM: A next generation generic readout system

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The Scalable Readout System (SRS) of the RD51 collaboration with the APV25 ASIC is driving R&D for gaseous detectors. Discontinuation of APV25 and demands on flexibility concerning e.g. detector capacitance and readout rate induced a replacement of the ASIC, for which the collaboration has chosen the VMM chip of the ATLAS New Small Wheel upgrade.

Several prototype SRS VMM systems are operational with small GEM detectors and were used at test beams. Hardware components are now finalised in the transition phase from development to larger quantities production. More than twelve groups signed as primary system users.

The SRS as well as the VMM ASIC will be introduced, followed by an overview of the specific implementation of the ASIC into the system and its current status.

Finally, applications and further developments will be outlined.

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