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P-type sensor development and irradiation

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For the application to the inner tracker of the ATLAS detector for the SLHC, R&D n-in-p silicon microstrip sensors were fabricated in the float-zone (FZ) and the magnetic Czochralski (MCZ) p-type wafers. Six different strip isolation structures of the n-strips were implemented. The miniature sensors were irradiated to the protons from the 70 MeV cyclotron at Tohoku University. Results of pre- and post-irradiation measurements of I-V, C-V, interstrip isolation, and charge collection efficiency (CCE) will be presented.