

# FAI Observations by the MU radar

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Ionospheric plasma often exhibits an irregular field-aligned structure (FAI) formed by the plasma instability. FAIs effectively scatter perpendicularly-incident radar radio waves, and signal strengths are several tenths of dB above the IS level. Thus FAI observations play an important role not only in the study of micro-scale plasma instability but also act as a probe to sound a large scale ionospheric structure. FAI observations by the MU radar and their significance in the ionospheric study will be reviewed.