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Initial results of ESA/ISA on board SS-520-2 sounding rocket

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SS-520-2 sounding rocket was lunched from Ny-Alesund, Norway, on December 4, 2000, at 0916 UT. The main purpose of this rocket experiment was to observe ion acceleration and heating in the cusp/creft region. We have developed an electron energy spectrum analyzer (ESA) and an ion energy spectrum analyzer (ISA) for this rocket experiment. ESA and ISA are troidal top-hat type electrostatic analyzers that can obtain energy spectrum of electrons and ions with the time resolution of 20 msec. ESA/ISA functioned normally throughout the rocket flight, and we succeeded in obtaining good and scientifically meaningful data. We will report evaluation of the flight data and will show the initial results obtained by ESA/ISA.

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