



## **Auroral Kilometric Radiation in the cusp region of the Earth's magnetosphere**

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The “classical” Auroral Kilometric Radiation (AKR) generates in auroral region by cyclotron maser instability and the energy source of it – energetic particles injected from the tail to inner region of magnetosphere. The similar emission are observed

in the cusp region. We use measurements of electromagnetic emissions in this region at frequency from 4 kHz to 1 MHz carried by POLRAD experiment onboard INTERBALL-2 spacecraft. It appears that:

i the intensity of radio emissions in cusp is less than those in the auroral region;

ii Dynamical spectrogram of emissions observed in cusp reveals structures with down and up going central frequencies which can allow to estimate the dynamics of source regions where AKR is generated.