

Discrete ELF/VLF emissions in the Earth magnetosphere

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The review includes discussion of different types of discrete ELF/VLF signals, which are connected with cyclotron interaction of Radiation Belt electrons with whistler mode waves. The last results in the theory of triggered VLF emissions are summarized. The generation mechanisms of chorus emissions are considered, and theoretical models are verified on the base of Cluster data. The role of chorus emissions is discussed in dynamics of energetic electron population of the Radiation Belts.