

Geophysical Research Abstracts, Vol. 9, 04996, 2007

SRef-ID:

© European Geosciences Union 2007



## **Type IV Bursts at Frequencies 10-30 MHz**

V. N. Melnik (1), H. O. Rucker (2), A. A. Konovalenko (1), E. P. Abranin (1), V. V. Dorovskyy (1), A. A. Stanislavskyy (1), A. Lecacheux (3)

(1) Institute of Radio Astronomy, Kharkov, Ukraine, (2) Space Research Institute, Graz, Austria, (3) Observatoire de Meudon, Paris, France (melnik@ira.kharkov.ua / Phone: +38057-7061411)

**1 We report the results of observations of some Type IV bursts, which were registered at radio telescope UTR-2 on July 2005. Detection of Type IV bursts in wide band from 10 to 30 MHz allowed to study their properties. These bursts appeared after Type II bursts and show increased radio emission with flux 2-4 s.u.f. at all frequencies. Such bursts lasted some hours in some cases. In all cases Type IV burst have fine structure in the form of sub-bursts with durations 2-3 s. The brightest sub-bursts have radio fluxes up to 50 s.u.f. Their frequency bands were from 1-2MHz to 6-8MHz. For the most of sub-bursts their frequency drift rates were more than 1MHz/s and sign of drift rates was both positive and negative. The relation of decameter Type IV bursts with Type IV bursts at higher frequencies is discussed.**