Geophysical Research Abstracts Vol. 17, EGU2015-8526-1, 2015 EGU General Assembly 2015 © Author(s) 2015. CC Attribution 3.0 License.



## Decametric and hectometric Solar Type III bursts at Saturn's orbit

Mohammed Y. Boudjada (1), Sami Sawas (2), Patrick H.M. Galopeau (3), and Milan Maksimovic (4) (1) Space Research Institute, Austrian Academy of Sciences, Graz, Austria (mohammed.boudjada@oeaw.ac.at), (2) Institute of communications and wave propagation, University of Technology, Graz, Austria, (3) Université Versailles St-Quentin, CNRS/INSU, LATMOS-IPSL, Guyancourt, France, (4) LESIA - Observatoire de Paris-Meudon, Meudon, France

We report on solar radio bursts observed by RPWS experiment onboard Cassini spacecraft. We consider Type III solar bursts observed in the frequency range from 1 MHz to 16 MHz. Those bursts are probably generated in the solar corona and the interplanetary medium. We show that the Type III burst occurrence is depending on the solar activity. We attempt to localize the regions where the Type III burst is probably emitted. We consider that the electrons at the origin of the Solar Type III bursts follow the interplanetary magnetic field. The trajectory is an Archimedean spiral contained in the ecliptic plane. We discuss our results taking into consideration on the one hand the spacecraft positions with regards to the source location, and on the other hand the temporal and spectral radio beam variation when combining Cassini and Wind observations.