## Time-Resolved Visible Spectra in a Skin Explosion of Conductors in Megagauss Magnetic Fields

## Datsko I $M^{1,@}$ , Chaikovsky S $A^{2,1}$ , Rousskikh A $G^1$ , Van"kevich V $A^1$ , Zhigalin A $S^1$ and Oreshkin V $I^1$

 $^1$ Institute of High Current Electronics of the Siberian Branch of the Russian Academy of Sciences, Akademichesky Avenue 2/3, Tomsk 634055, Russia $^2$ Institute of Electrophysics of the Ural Branch of the Russian Academy of Sciences, Amundsen 106, Ekaterinburg 620016, Russia

<sup>@</sup> datsko@ovpe.hcei.tsc.ru

The emission spectrum was obtained from the explosion of flat and cylindrical loads. The absence of line emission in the visible range is shown at 500 nanosecond sweep of the spectrograph. It is shown that the line radiation of a conductor in the visible range during its explosion with a current with a front of 100 ns is present in the spectrum for a very short time (less than 1-10 ns).