

E.Gavryuseva (1, 2)

(1) Institute for Nuclear Research, Moscow, Russia and

(2) Arcetri Astrophysical Observatory, Florence, Italy

(elena.gavryuseva@gmail.com / Fax: 39 055 2752 292 / Phone: 39 055 2752 225)

Text of Abstract

- Longitudinal structure of the photospheric magnetic field over last three solar cycles has been studied. The dependence on the latitude, on the hemisphere, phase of cycle and on the cycle itself was analyzed.

The reconstruction of the longitudinal structure in the heliographic system rotating like the photospheric field (latitude and time dependent) has been performed as well as in different rigidly rotating systems.