

# **A magnetic field function of main sequence stars**

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**Abstract.** A magnetic field function — a frequency of stars in a given range of magnetic fields per one Gauss — was constructed for 103 stars of the main sequence. The dependence appearance is discussed. On the basis of published data the values of surface magnetic fields were obtained for 10 main sequence stars. The magnetic survey of the stars up to  $m \leq 4.0$  of the northern sky which was initiated in order to refine the magnetic field function appearance is discussed.