

Бисноватый-Коган Г.С., Ляхова Я.С. «Properties of magneto-dipole X-ray lines in different radiation models» Monthly Notices of the Royal Astronomical Society, Volume 456, Issue 3, p.3186-3193

Bisnovatyi-Kogan, G. S.; Lyakhova, Ya. S. Properties of magneto-dipole X-ray lines in different radiation models Monthly Notices of the Royal Astronomical Society, Volume 456, Issue 3, p.3186-3193

Аннотация

We compare the polarization properties of cyclotron and relativistic dipole radiation of electrons moving in a magnetic field on a helix with ultrarelativistic longitudinal and non-relativistic transverse velocity components. The applicability of these models in the case of accretion on to a neutron star is discussed. A test based on polarization observations is suggested to distinguish between a cyclotron and relativistic dipole origin of features observed in the X-ray spectra of some X-ray sources, see e.g. Santangelo et al., among which Her X-1 is the most famous (Trümper et al.).