**Equation of The Dynamics of The Neutron Star Magnetic Field which Rotates Rapidly and Accretes in The ZAMO(Zero Angular Momentum Observers) Framework**

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ABSTRACT

The hypothesis of the phenomenon of the magnetic field decrease in neutron stars is that of the neutron stars that are accreting. Equations that show the relationship between reducing magnetic fields and accretion equations are needed. Equation of the magnetic field decreases in the form of a magnetic field dynamics equation. The relativistic magnetic field dynamics equation in neutron stars that rotates rapidly and accretes within the framework of ZAMO (Zero Angular Momentum Observers) has been formulated. This equation is obtained from fast rotating neutron metric stars and formulates the Maxwell relativistic first and second equations. The magnetic field dynamics equation is a differential equation of radial, polar, and azimuthal functions.

*Keywords: The relativistic magnetic fields dynamics equations; neutron star;* rotates rapidly*; ZAMO*

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