

Implications for Discovery of Strong Radial Magnetic Field at the Galactic Center

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An abnormal strong radial magnetic field near the Galactic Center (GC) is detected[1]. The lower limit of the radial magnetic field at $r=0.12$ pc from the GC is .

Its Possible scientific significance are following:

The black hole model at the GC is incorrect. The reason is very simple as follows.

the radiations observed from the region neighbor of the GC are hardly emitted by the gas of accretion disk which is prevented from approaching to the GC by the abnormally strong radial magnetic field[2].

This is an anticipated signals for existence of magnetic monopoles(MM)[3].

The lower limit of the detected radial magnetic field is quantitatively in agreement with the prediction of the paper "An AGN model with MM" [4].

Magnetic monopoles may play a key role in some very important astrophysical problems using the Robakov-Callen effect that nucleons may decay catalyzed by MM

Taking the RC effect as an energy source, we have proposed an unified model for various supernova explosion[5], including to solve the question of the energy source both in the Earth core and in the white dwarfs.

We may explain the physical reason of the Hot Big Bang of the Universe with the similar mechanism of supernova explosion by using the RC effect as an energy source.

We shall point out that the problem on the increasing mass for the black hole model of quasars / AGN is an unavoidable difficult question. But no problem is for our AGN model with MM.

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