A Study of Null Geodesics and Weak Deflection Angle of Kazakov-Solodukhin-Kiselev Blackhole

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ABSTRACT

In this paper we constructed a Kazakov Solodukhin blackhole in the presence of quintessence, we have studied the null geodesics on this Kazakov-Solodukhin-kiselev blackhole and calculated the weak deflection angle using Gauss-Bonnet theorem. Further, the shadow characteristics have also been analyzed showing the size of the shadow depends on the Quintessence parameter.

Keywords: Weak Deflection Angle; Quintessence; Blackhole

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