

ANALYSIS OF THE PROBE NULL STRING
MOTION IN THE GRAVITATIONAL
FIELD OF A CLOSED NULL STRING
WITH CONSTANT RADIUS

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S u m m a r y

The exact solution of the equations describing the motion of a probe null string in the gravitational field of a closed null string with constant (in time) radius has been obtained and analyzed. The closed null string is assumed to move along the z -axis, being totally located in a plane orthogonal to this axis.