

INFLUENCE OF SCALAR FIELD WITH  
NONMINIMAL COUPLING ON TIME-LIKE  
SINGULARITIES IN GENERAL RELATIVITY

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S u m m a r y

We find and analyze the metric of the static axial-symmetric space-time in the presence of both a gravitational field and a scalar field with nonminimal coupling, including the conform-invariant Penrose field. For any coupling parameter  $\xi \neq 0$ , its characteristic features differ cardinally from the case  $\xi = 0$  which was studied earlier.