



Contribution ID: 62

Type: **Oral presentation (preferred)**

Properties of null one-way solution of Maxwell equations with separated variables in Kerr space-time

Tuesday 26 September 2017 11:40 (20 minutes)

We are finding in class of null one-way fields solution with separated variables of Maxwell equations in Kerr space-time. Obtained solution describes left and right circularly-polarized waves. From this solution we deduce the dependence of polarization rotation angle from frequency as well as expression for phase shift.

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Session Classification: Plenary Session 4