

On the splitting type of the vector bundles induces from Fuchsian system

G. Giorgadze

This is abstract of the joint work with Gega Gulagashvili.

In the report we prove, that for any Fuchsian system of differential equations on Riemann sphere there exists a rational matrix function whose partial indices coincide with the splitting type of holomorphic vector bundles induced from Fuchsian system. From this we obtain solution of the Riemann-Hilbert boundary value problem for piecewise constant matrix-function in closed form.