

Harmonic two-spheres into the complex Grassmannian

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Abstract:

Presentation of an explicit description of all harmonic maps of finite uniton number from a Riemann surface into a complex Grassmannian. Namely, starting from a constant map Q and a collection of meromorphic functions and their derivatives, it will be shown how to algebraically construct all harmonic maps from the two-sphere into a given Grassmannian $Gp(C^n)$.