

Duality Invariance of Kahler potentials on Generalized Flag Manifolds from Diverse Quiver Gauge Theories

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We present a systematic construction of Kähler potentials for various quiver gauge theories, which give pure realizations of the general flag manifolds as target manifolds. There, for arbitrary generalized flag manifolds with arbitrary complex structures, we rediscover the Kähler potentials given in the basic theory by Bando, Kuramoto, Maskawa and Uehara. In terms of these explicit forms, we confirm that all cluster mutations between different quiver gauge theories always reproduce the same Kähler potential. Furthermore these constructions and dualities are applied to Kählerian coset space G/H with all classical groups G .

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