Title: On exotic gauge invariant observables and the Goldman bracket between them for G2 gauge

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Abstract: In this talk I will show how to obtain an infinite dimensional Lie algebra of exotic gauge invariant observables that is closed under Goldman-type bracket associated with monodromy matrices of flat connections on a compact Riemann surface for G₂ gauge group. As a byproduct, we give an alternative derivation of known Goldman bracket for classical gauge groups GL(n, R), SL(n, R), U(n), SU(n), Sp(2n, R) and SO(n).