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Jun-ichi Inoguchi
Shimpei Kobayashi</td></tr>
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<tr><th>id</th><td>id9013977629142772455</td></tr>
<tr><th>abstract</th><td>We generalize the Uhlenbeck-Segal theory for harmonic maps into compact semi-simple Lie groups to general Lie groups equipped with torsion free bi-invariant connection. . suggestions to improve the paper. In particular, Section 3.5 has been modified according to the suggestion by him/her. 1. Preliminaries 1.1. Basic facts. Let M be a manifold and E a vector bundle over M and denote by Î“ (E) the space of all smooth sections of the vector bundle E. The space Î“ (â^§ r T * M âŠ—E) is denoted by Î© r (E). An element of Î© r (E) is called an E-valued r-form on M . In case E = M Ã— V is a trivial vector bundle over M with standard fiber V , then Î© r (M Ã— V) is denoted by Î© r (M ; V). An element of Î© r (M ; V) is called a V -valued r-form on M . By definition, for Î± â^^ Î© r (M ; V) and X 1 , X 2 , Â· Â· Â· , X r â^^ Î“ (T M), Î±(X 1 , X 2 , Â· Â· Â· , X r) â^^ C â^ž (M, V). Next let G be a Lie group with Lie algebra g. Take a bilinear map Âµ : g Ã— g â†’ g. Then for Î±, Î² â^^ Î© 1 (M ; g), we define a g-valued 2-form Âµ(Î± â^§ Î²) by Âµ(Î± â^§ Î²)(X, Y) := Âµ(Î±(X), Î²(Y)) â^’ Âµ(Î±(Y), Î²(X)) 3</td></tr>
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