Mathematics > Symplectic Geometry

Deformations of Poisson structures by closed 3-forms

O. I. Mokhov

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We prove that an arbitrary Poisson structure omega^{ii}(u) and an arbitrary closed 3-form T_{ijk}(u) generate the local Poisson structure $A^{i}(u,u_x) = M^{i}(u,u_x) = M^{i$ $omega^{sp}(u)T_{pik}(u)u^k_x) = delta^i_i, on the corresponding loop$ space. We obtain also a special graded epsilon-deformation of an arbitrary Poisson structure omega^{ij}(u) by means of an arbitrary closed 3-form T_{ijk}(u).

Comments: 5 pages

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