

© 2006 Heldermann Verlag
Journal of Lie Theory 16 (2006) 131–138

S.-Q. Oh

Department of Mathematics, Chungnam National University, Daejeon 305-764, Korea
sqoh@cnu.ac.kr

Symplectic Submanifolds and Symplectic Ideals

Let N be a Poisson manifold with global coordinate functions. We define a symplectic ideal of the ring $C^\infty(N)$ of smooth functions and investigate a relationship between symplectic submanifolds of N and symplectic ideals of $C^\infty(N)$.

Keywords: Poisson algebra, symplectic submanifold, symplectic ideal.

MSC: 17B63; 53D05, 53D17