The Duflo homomorphism for subalgebras

Eckhard Meinrenken

mein@math.toronto.edu

University of Toronto

Let g be a Lie algebra. The Duflo homomorphism is a linear isomorphism from the symmetric algebra of g to the universal enveloping algebra, restricting to a ring homomorphism on invariant elements. In general, the Duflo homomorphism does not restrict to subalgebras of g. We will explain that there is, however, a good restriction map for a certain extension of the Duflo map.