Hamid Usefi\* (usefi@math.ubc.ca), Department of Mathematics, University of British Columbia, 1984 Mathematics Road, Vancouver, BC V6T 1Z2, Canada. The isomorphism problem for restricted enveloping algebras.

Let L be a restricted Lie algebra and denote by u(L) the restricted enveloping algebra of L. The isomorphism problem for restricted enveloping algebras asks what invariants of a restricted Lie algebra L are determined by u(L), i.e. given another restricted Lie algebra H with the property that  $u(L) \cong u(H)$ , as algebras, can we deduce that L and H have the same invariants? Of course, the strongest invariant of L is its isomorphism type. In this talk we give some positive answers to this problem in the case L is abelian or metacyclic. (Received September 14, 2007)