Title: “Compatible Poisson brackets related to Inönü–Wigner contractions of simple Lie algebras”

Abstract: Starting from two compatible Poisson brackets one can construct large families of Poisson-commutative subalgebras. Mishchenko–Fomenko subalgebras are manifestations of this phenomenon. Similarly to the MF setting, we consider pairs of Poisson structures on \( g^\ast \) for a reductive Lie algebra \( g \). The first structure is given by the usual Lie bracket on \( g \) and the second one is related to a contraction of \( g \). It turns out that the corresponding Poisson-commutative subalgebras have many interesting properties.