Turkish Journal of Physics

Turkish Journal	Fractional Poisson Bracket
of	Alireza Khalili GOLMANKHANEH
	Department of Physics, University of Pune, Pune 411007, INDIA
Physics	Department of Physics, Islamic Azad University-Oromiyeh Branch,
	P.O. Box 969, Oromiyeh-IRAN
	e-mail: alireza@phyics.unipune.ernet.in
0	Abstract: In the present paper fractional Hamilton-Jacobi equation has been derived for dynamical
Keywords	systems involving the Caputo derivative. Fractional Poisson-bracket is introduced. Further Hamilton's
Authors	canonical equations are formulated and quantum wave equation corresponds to the fractional Hamilton-
	Jacobi equation is suggested. Illustrative examples have been worked out to explain the formalism.
	Key Words: Hamilton-Jacobi guantized equation; Riemann-Liouville derivative; Caputo derivative;
@	Canonical transformation; Generating function; fractional Poisson-bracket
phys@tubitak.gov.tr	Turk. J. Phys., 32 , (2008), 241-250.
	Full text: pdf
Scientific Journals Home	Other articles published in the same issue: <u>Turk. J. Phys.,vol.32,iss.5</u> .
Page	