Turkish Journal of Mathematics

Turkish Journal

Cartan Calculus on the Quantum Space $R_{\alpha}^{\ 3}$

of

Mathematics

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Keywords Authors

<u>Abstract:</u> To give a Cartan calculus on the extended quantum 3d space, the noncommutative differential calculus on the extended quantum 3d space is extended by introducing inner derivations and Lie derivatives.



Key Words: Quantum space, Hopf algebra, Lie algebra, inner derivation, Lie derivation

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Turk. J. Math., 33, (2009), 75-83.

Full text: pdf

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Other articles published in the same issue: Turk. J. Math., vol.33, iss.1.