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Abstracts of Short Communications and Posters

Section:

8. Analysis

1991 MS Classification:

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q-Derivation, Sine algebra and $Ut(sl(2))$

We review the algebra of q-pseudo-differential operators ($q - \psi$ DO) and certain of its properties. Based on the fact that $w(\infty)$ and $Ut(sl(2))$ can be constructed from the trigonometric sine algebra(FFZ algebra), we propose the embedding of $w(\infty)$ and $Ut(sl(2))$ in ($q - \psi$ DO). The correspondance with 2-D fractional supercharge is examined .