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The Compact Quantum Group \$U_q(2)\$ (II)

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摘要 In this paper, we first prove that the $\hat U_{\star} = 1$ in this paper. Then $\hat U_{\star} = 1$ in this paper, we first prove that the $\hat U_{\star} = 1$ in this paper, we first prove that the $\hat U_{\star} = 1$ in this paper.

关键词 <u>compact quantum group</u> <u>\$C^*\$-algebra</u> <u>trace</u> <u>comultiplication</u>

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The Compact Quantum Group \$U_q(2)\$ (II)

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Abstract In this paper, we first prove that the \$\theta\$-deformation \$U_{\theta}(2)\$ of \$U(2)\$ constructed by Connes and Violette is our special case of the quantum group \$U_q(2)\$ constructed in our previous paper. Then we will show that the set of traces on the \$C^*\$-algebra \$U_\theta\$, \$\theta\$ irrational, is determined by the set of the traces on a subalgebra of \$U_\theta\$.

Key words <u>compact quantum group</u> <u>\$C^*\$-algebra</u> <u>trace</u> <u>comultiplication</u>

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