2006 Vol. 45 No. 1 pp. 49-54 DOI:

New Operator Identities and Combinatorics Studied by Virtue of IWOP Technique FAN Hong-Yi, 1,2 OU-YANG Jing, 3 and JIANG Zhong-Hua³

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(Received: 2004-6-28; Revised:)

Abstract: Using the coherent state representation we derive some new operator identities and study some mathematical relations in combinatorics. The technique of integral within an ordered product (IWOP) of operators plays an essential role in realizing our goal.

PACS: 03.65.Ca, 02.90.+p

Key words: IWOP technique, combinatorics, operator identities

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