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New Form of Legendre Polynomials Obtained by Virtue of Excited Squeezed State and IWOP Technique in Quantum Optics

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Abstract: Using the technique of integration within an ordered product of operators and the intermediate coordinate-momentum representation in quantum optics, as well as the excited squeezed state we derive a new form of Legendre polynomials.

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Key words: excited squeezed state, IWOP technique, Legendre polynomial's new form

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