1141-17-54 **Kailash C. Misra*** (misra@ncsu.edu), Raleigh, NC 27695-8205. *Crystal like bases for some quantized imaginary Verma modules for $U_q(\widehat{sl}(2)$.*

For the affine Lie algebra $\widehat{\mathfrak{sl}(2)}$ there exists a closed partition of the root system which is not Weyl group conjugate to the standard partition of the root system. This nonstandard partition of the root system gives rise to a nonstandard Borel subalgebra. The Verma module $M(\lambda)$ with highest weight λ induced by the nonstandard Borel subalgebra is called the imaginary Verma module. This imaginary Verma module $M(\lambda)$ can be q-deformed to the quantized imaginary Verma module $M_q(\lambda)$. We define imaginary crystal bases for $U_q(\widehat{\mathfrak{sl}(2)})$- modules in certain category $\mathcal{O}^q_{\text{red,im}}$ and show the existence of such bases for reduced quantized imaginary Verma modules for $U_q(\widehat{\mathfrak{sl}(2)})$. Then we show the existence of imaginary crystal basis for any object in the category $\mathcal{O}^q_{\text{red,im}}$.

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