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Gabriel Sosa*, gsosa@amherst.edu, and **Michael DiPasquale, Chris Francisco, Jeff Mermin** and **Jay Schweig**. *The Rees algebra of a Two-Borel ideal is Koszul.*

Let K be a field of characteristic 0 and u and v two monomials of the same degree in $K[X_1, \dots, X_n]$. We show that the toric ring $K[\mathcal{N}]$, where $\mathcal{N} = \mathcal{B}(u) \cup \mathcal{B}(v)$, is Koszul using the construction of graphs corresponding to fibers of the toric map.

This implies that the Rees Algebra, $\mathcal{R}(I)$, of the two Borel ideal $I = \langle \mathcal{N} \rangle$ is also Koszul, answering a question of Conca. Remarks regarding the normality and Cohen-Macaulayness of these toric rings will be presented.

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