1116-11-1702 **Michael Griffin**, **Marie Jameson*** (mjameson@utk.edu) and **Sarah Trebat-Leder**. *On p-adic modular forms and the Bloch-Okounkov theorem.*

Bloch-Okounkov studied certain functions on partitions f called shifted symmetric polynomials. They showed that certain q-series arising from these functions (the so-called *q-brackets* $\langle f \rangle_q$) are quasimodular forms. We revisit a family of such functions, denoted Q_k, and study the p-adic properties of their q-brackets. To do this, we define regularized versions $Q_k^{(p)}$ for primes p. We also use Jacobi forms to show that the $\left\langle Q_k^{(p)} \right\rangle_q$ are quasimodular and find explicit expressions for them in terms of the $\langle Q_k \rangle_q$. (Received September 21, 2015)