1035-55-1943 **Kristen Joy Schemmerhorn*** (`kschemmerhorn@dom.edu`), Dominican University, 7900 W Division St, River Forest, IL 60305. *p-adic K-theory and the Bousfield-Kuhn Functor.* Preliminary report.

There is a spectral sequence, $L_s Q_\theta(K^*(X; \mathbb{Z}_p))^t \implies K^{t-s}(\phi_1 X; \mathbb{Z}_p)$, where ϕ_1 is the Bousfield-Kuhn functor, L_s are the non-abeilan derived functors (variant of André-Quillen homology), $Q_\theta = \mathbb{Z}_p \otimes_{\mathbb{Z}_p[\theta^p]} Q(-)$, and Q is the indecomposables functor. This spectral sequence was developed to calculate $K^*(\phi_1 S^m; \mathbb{Z}_p)$ for $m > 2$ and is now being applied to look at $K^*(\phi_1 BU(n); \mathbb{Z}_p)$, which will be be the focus of the talk. (Received September 20, 2007)