1003-13-683 **Phillip A. Griffith*** (`griffith@math.uiuc.edu`), 1409 W. Green St., Urbana, IL 61801.
Extending Coherent Sheaves from Open Subschemes. Preliminary report.

Let R and S be local normal domains such that $S/tS = R$ and let b denote an ideal in S with $t \in b$ such that $a = b/(t)$ has codim ≥ 2 in R. If $R \hookrightarrow A$ is a finite generically Galois extension, I will discuss the problem of extending the coherent $\mathcal{O}_X$-algebra $\tilde{A}$ from the open subscheme $X = Spec\, R - V(a)$ to a normal $\mathcal{O}_Y$-algebra, where $Y = Spec\, S - V(b)$. (Received September 27, 2004)