Let $k$ be a field and let $\Lambda$ be a finite dimensional $k$-algebra such that there is a stable equivalence of Morita type between $\Lambda$ and a self-injective split basic Nakayama algebra over $k$. I will show that every indecomposable $\Lambda$-module has a universal deformation ring and describe the possible isomorphism types of these rings. This is joint work with D. Wackwitz. (Received August 28, 2016)