1154-13-1992 **Javier Carvajal-Rojas**, **Linquan Ma**, **Thomas Polstra**, **Karl Schwede*** (schwede@math.utah.edu) and **Kevin Tucker**. *Covers of rational double points in mixed characteristic.*

We further the classification of rational surface singularities. Suppose $(S, \mathfrak{n}, \|)$ is a strictly Henselian regular local ring of mixed characteristic $(0, p > 5)$. We classify functions f for which $S/(f)$ has an isolated rational singularity at the maximal ideal $\mathfrak{n}$. The classification of such functions are used to show that if $(R, \mathfrak{m})$ is an excellent, strictly Henselian, Gorenstein rational singularity of dimension 2 and mixed characteristic $(0, p > 5)$, then there exists a split finite cover of $\mathrm{Spec}(R)$ by a regular scheme. We give an application of our result to the study of 2-dimensional BCM-regular singularities in mixed characteristic. (Received September 17, 2019)