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([takumim@math.princeton.edu](mailto:takumim@math.princeton.edu)). *Are excellent F-pure rings Frobenius split?*

A folklore question in prime characteristic commutative algebra, which can be traced back to when Hochster and Roberts introduced the notion of F-purity, is whether an excellent F-pure ring is always Frobenius split. In this talk, which is based on joint work with Takumi Murayama, we will use a simple construction from rigid analytic geometry to give a negative answer to this question, even for excellent Euclidean domains. (Received September 13, 2020)