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*Roots of Bernstein-Sato polynomials via characteristic  $p > 0$  methods.*

An  $F$ -threshold is an invariant of singularities in characteristic  $p > 0$ . Mustașă, Takagi, and Watanabe proved that if a special type of formula for an  $F$ -threshold can be found, then roots of the Bernstein-Sato polynomial (in characteristic zero) can be recovered. We discuss some results in this direction. This is joint work with Daniel Hernández. (Received September 03, 2014)