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Eamon Quinlan-Gallego* (equinlan@umich.edu), East Hall, 530 Church Street, Ann Arbor, MI 48109. *Bernstein-Sato theory in positive characteristic.*

The Bernstein-Sato polynomial of an ideal $\mathfrak{a} \subseteq \mathbb{C}[x_1, \dots, x_n]$ is an invariant that originated in complex analysis and with now strong applications in birational geometry and singularity theory over \mathbb{C} . In this talk we present an analogue of this invariant in positive characteristic and discuss some of its basic properties. (Received February 03, 2020)