

1145-D1-2022 **Thomas Britt*** (tbritt@gmu.edu), 4400 University Drive, MS 5D8, Fairfax, VA 22030. *Profiles of Prime Suspects*.

I submit this abstract to report on a project that “explore[s] interactions between mathematics and the arts” in an “unexpected context” (quoted from your call for papers). As a filmmaker, for the past decade, I have documented the development of a multiplatform arts project with mathematics at its center. The genesis of the project was “Math Sciences Investigation (MSI): The Anatomy of Integers and Permutations,” a script written by Andrew Granville (Canada Research Chair in Number Theory at the University of Montreal) and Jennifer Granville (award-winning producer, screenwriter, and director). The project has evolved to include a stage play of that script, an unorthodox musical score composed by a mathematician (Robert Schneider, Lecturer in the Department of Mathematics at the University of Georgia) and “Prime Suspects,” a graphic novel from Princeton University Press (forthcoming February 2019). My report uses observational video footage and interviews with all of the participants as well as present-day testimonials solicited for this report, to present the way that the arts theory of medium specificity interacts with Granville’s forensic examination of “the extraordinary similarities between the fine details of the structure of integers and of permutations.” (Received September 24, 2018)