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Francine F. Abeles* (fabeles@kean.edu), Dept. of Math. & Comp. Sci., Kean University, Union, NJ 07083. *Henry J. S. Smith's Papers on Mathematical Crystallography: Part 1. Preliminary report.*

In 1876, the Oxford Mathematician, Henry J. S. Smith, read two papers on the subject of mathematical crystallography, a topic considered tangential to his serious interests. An abbreviated version was read to the Crystallographic Society, and the full version to the London Mathematical Society. The two papers are unknown in the history of crystallography, and were given scant attention by the Oxford Professor of Mineralogy, N. S. Maskelyne, who had asked Smith to write on the topic. In this paper I will explore possible reasons for why this work is unknown, why Maskelyne dismissed it, and show that this work was one of Smith's serious interests. (Received December 05, 2006)