

UMW Colloquium Announcement
Department of Mathematics

**A Mathematical Look at Gravity's
Action on Light**

Presented by

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**Wednesday, March 27, 2019, 4 p.m.
140 Trinkle Hall**

Abstract:

"But a hidden star can still be smiling at night's black spell on darkness, beguiling."

- Munia Kahn, Poet

Certainly, we have each observed the beauty and mystery of the night sky. The light patterns observed by us, on earth, are the result of a source star's light having been affected by the gravitational fields of other stars, black holes, and galaxies obstructing its path. In this talk, we will discuss the ways in which mathematics can be used to model the magnification and light patterns which we observe in the night sky.

