

1125-AE-991      **Jennifer Taback\*** (jtaback@bowdoin.edu), 8600 College Station, Bowdoin College, Brunswick, ME 04011. *An Introduction to Lamplighter Groups.*

We will define the family of lamplighter groups, which are examples of wreath products in group theory. Lamplighter groups can be understood purely algebraically, using mathematical trees, using decks of (very special) cards, or strings of light bulbs! We will meet the group elements themselves, the group as a whole, and end with a reference to other wreath products and the Traveling Salesman Problem. This talk will be accessible to undergraduates. (Received September 13, 2016)