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Lower Bounds for the  
Exponential Domination Number of  $C_m \times C_n$   
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This poster will discuss the exponential domination number for the graph  $C_m \times C_n$ . In the paper, *On Exponential Domination of  $C_m \times C_n$* , Anderson et. al. proved that  $\frac{mn}{15.875}$  is a lower bound for the exponential domination number of  $C_m \times C_n$ . We use linear programming to sharpen the lower bound to  $\frac{mn}{13.7619 + \varepsilon}$ .