

$m = 3, n = 2$  solution to the vibrating drumhead

- $m = 3$  indicates that there are three transverse nodal lines.
- $n = 2$  indicates that there are two nodal circles, including the outer boundary.
- Gray areas of the drumhead indicate portions that are up at one moment in time, white areas are down at that moment in time.
- The dashed graph is the cross section along the dashed circle, showing three periods of the sine function, with six nodes.
- The dotted graph is the first order Bessel function (of the first kind) with two nodes along each radius, including the outer edge.

