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Oscar M Perdomo* (perdomoosm@ccsu.edu), Department of Mathematics, Marcus White 111, 1615 Stanley Street, New Britain, CT 06119. *Rotating drops with helicoidal symmetry (Joint work with Bennett Palmer).*

In this talk we will consider rotating drops in the Euclidean space. This is, we will consider surfaces with the property that $2H = b - (a/2)R^2$ where a and b are constants, H is the mean curvature of the surface and R is the distance from points in the surface to the z -axis. We will classify all rotating drops that have helicoidal symmetry and we will show an explicit way to describe them. We will also show embedded examples. This is joint work with Bennett Palmer. (Received November 11, 2013)