1135-35-468Stephen C Preston and Alejandro Sarria* (asarria@ung.edu), 175 Nugget Rd, Dahlonega,
GA 30533. Lagrangian aspects of the axisymmetric Euler equation.

We discuss new blowup results for the axisymmetric three-dimensional Euler equations with swirl on a cylinder. Working with the equations in Lagrangian form along either the axis or the boundary and imposing oddness on the vertical component of the flow, we extend some blowup criteria due to Chae, Constantin and Wu related to assumptions on the sign of the pressure Hessian. (Received September 05, 2017)