

**Meeting:** 1006, Lubbock, Texas, SS 2A, Special Session on Differential Geometry and Its Applications

1006-53-149      **Hongyou Wu\*** ([wu@math.niu.edu](mailto:wu@math.niu.edu)), Department of Mathematics, Northern Illinois University,  
DeKalb, IL 60115. *Backlund transformations for Weigarten surfaces*. Preliminary report.

The classical Backlund transformation yields a new pseudo-spherical surface from a known one. In this talk, we discuss how to obtain and classify such transformations for Weigarten surfaces. (Received February 13, 2005)