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**Matthew D Zeckner\*** ([Matthew.Zeckner@uky.edu](mailto:Matthew.Zeckner@uky.edu)), 715 Patterson Office Tower, University of Kentucky, Lexington, KY 40506, and **Benjamin J Braun**. *Deformation Retracts of Neighborhood Complexes of Stable Kneser Graphs*. Preliminary report.

Anders Björner and Mark de Longueville proved in 2001 that the neighborhood complex of any stable Kneser graph is homotopy equivalent to a sphere. They further conjectured that every such neighborhood complex contains a polytopal sphere as a deformation retract and proved this in special cases. We give an outline of the proof of their conjecture for other special cases. (Received September 20, 2010)