

Meeting: 1003, Atlanta, Georgia, AMS CP 1, AMS Contributed Paper Session

1003-54-1227 **Elise Grabner*** (elise.grabner@sru.edu), Department of Mathematics, Slippery Rock University, Slippery Rock, PA 16057, **Gary Grabner**, Department of Mathematics, Slippery Rock University, Slippery Rock, PA 16057, **Kazumi Miyazaki**, Department of Mathematics, Osaka Elector-Commnication University, 572-8530 Osaka, Japan, and **Jamal Tartir**, Department of Mathematics, Youngstown State University, Youngstown, OH 44555. *A note on relative symmetrizability.*

In 1995, Arhangel'skii and Gordienko began a study of relative symmetrizability. We expand upon their work.

<theorem/>Y is properly semi-stratifiable in X and 1st countable in X if and only if there is a symmetric on (Y,X) properly defining Y in X satisfying condition 0).

<example/>A subspace Y of X which is not properly symmetrizable in X such that there is a symmetric on (Y,X) satisfying any 3 of the conditions 01)-04) of Arhangel'skii and Gordienko. (Received October 04, 2004)