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Rehana Patel* (patel@math.harvard.edu), Department of Mathematics, Harvard University,
One Oxford Street, Cambridge, MA 02138. *Theories that exhibit SOP_3 but not SOP_4 .*

Theories with the n -strong order property (SOP_n), $n > 2$, form a hierarchy within Shelah's classification of unstable theories. Among these, theories that exhibit SOP_3 but not SOP_4 are of particular interest. In my talk I will describe the SOP_n hierarchy, discuss conditions under which a theory will fail to have SOP_4 , and provide graph-theoretic examples of such theories. (Received August 20, 2008)