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Jimmy Shan* (shan15@illinois.edu), 1409 W Green, Urbana, IL 61801. *Resolutions of ideals of powers of linear forms*. Preliminary report.

A special class of ideals of powers of linear forms are constructed from graphs by Postnikov-Shapiro. They found the Hilbert series of these ideals and conjectured formulas for the Betti numbers. A special case of their conjecture is Schenck's conjecture. I will talk about an approach to their conjecture, focusing mainly on Schenck's conjecture. (Received August 29, 2014)