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Sema Gunturkun* (gunturkun@ms.uky.edu) and **Uwe Nagel**. *Boij-Söderberg Decomposition of the Betti Diagrams of Lex-segment Ideals*. Preliminary report.

Boij-Söderberg theory describes the Betti diagrams of graded modules over the polynomial ring as a linear combination of pure (normalized) diagrams with positive coefficients. In this talk, we will focus on Betti diagrams of lex-segment ideals and study Boij-Söderberg decomposition of their Betti diagrams in terms of Boij-Söderberg decomposition for some larger lex-segment ideals. (Received December 02, 2012)