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**Hugh Roberts Geller\*** (hgeller@g.clemson.edu). *Minimal Free Resolutions of Fiber Products*. Preliminary report.

In 2006 Visscher published an explicit construction for the minimal free resolution of the fiber product  $k[\underline{x}] \times_k k[\underline{y}]$  where  $k$  is a arbitrary field and  $\underline{x}$  and  $\underline{y}$  are distinct lists of variables. In this talk, we briefly rephrase Visscher's construction in terms of Koszul complexes. From there we show how to use this construction along with the minimal free resolutions of  $k[\underline{x}]/\mathcal{I}$  and  $k[\underline{y}]/\mathcal{J}$ , where  $\mathcal{I} \subseteq \langle \underline{x} \rangle^2$  and  $\mathcal{J} \subseteq \langle \underline{y} \rangle^2$ , to obtain a minimal free resolution of  $k[\underline{x}]/\mathcal{I} \times_k k[\underline{y}]/\mathcal{J}$ . (Received August 03, 2020)