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David Eisenbud* (de@msri.org), Dept of Mathematics, University of California, Berkeley, Berkeley, CA 94720, and **Frank-Olaf Schreyer**. *Sheaves on $P^1 \times P^1$* .

We described the cone of cohomology tables of coherent sheaves on P^n in our paper Cohomology of Coherent Sheaves and Series of Supernatural Bundles (arXiv:0902.1594; to appear in the Journal of the European Mathematical Society.) This talk will explain ideas from our recent joint work on a possible description of the cone of bigraded cohomology tables of vector bundles on $P^1 \times P^1$. (Received September 22, 2009)