Duality in Boij-Soederberg Theory

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A central idea in Boij-Soederberg Theory is that there is a connection between two different refinements of the Hilbert polynomial: the Betti table of free complex on the one hand, and the cohomology table of a coherent sheaf on the other hand. I'll describe a pairing that yields a rich duality of cones involving these two refinements. This is joint work with David Eisenbud.