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Implicit equations of tensor product surfaces in the presence of basepoints

A tensor product surface is the image of a map $\lambda : P^1 \times P^1 \rightarrow P^3$, such surfaces arise in geometric modeling and in this context it is important to know their implicit equation. The goal for this talk is to explain how the implicitization problem for tensor product surfaces can be solved using syzygies and how the geometry of the base locus of λ determines the syzygies that are used to compute the implicit equation.