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Some resolutions of double points in $\mathbb{P}^1 \times \mathbb{P}^1$

Let Z be a finite set of double points in $\mathbb{P}^1 \times \mathbb{P}^1$ and suppose further that X, the support of Z, is arithmetically Cohen–Macaulay (ACM). I will present an algorithm, which depends only upon a combinatorial description of X, for the bigraded Betti numbers of I_Z, the defining ideal of Z.

This is joint work with Elena Guardo of Catania.