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On the Hilbert functions of points in $\mathbb{P}^1 \times \mathbb{P}^1 \times \mathbb{P}^1$.

Let H_X be the trigraded Hilbert function of a set X of reduced points in $\mathbb{P}^1 \times \mathbb{P}^1 \times \mathbb{P}^1$. We show how to extract some geometric information about X from H_X. This is a joint paper with A. Van Tuyl