

# Generic initial ideal for complete intersections of embedding dimension three with strong Lefschetz property.

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## Abstract

We compute the generic initial ideal of a complete intersection of embedding dimension three with strong Lefschetz property and we show that it is an almost reverse lexicographic ideal. This enable us to give a proof for Moreno's conjecture in the case  $n = 3$  and characteristic zero.

**Keywords:** complete intersection, generic initial ideal, Lefschetz property, Moreno's conjecture.

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