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The Ascending Chain Condition for log canonical thresholds

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ABSTRACT

Shokurov conjectured that the set of all log canonical thresholds of pairs of bounded dimension satisfies the Ascending Chain Condition. It is known that this conjecture has strong consequences for the Minimal Model Program. I will discuss a proof of this conjecture in the case when the ambient variety is smooth (or more generally, a locally complete intersection). This is based on joint work with Tommaso de Fernex and Lawrence Ein.