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Serre's twisting theorem

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Let X be a scheme, and \mathfrak{L} an ample invertible sheaf on X . Then for any coherent sheaf \mathcal{F} , and sufficiently large n , $H^i(\mathcal{F} \otimes \mathfrak{L}^n) = 0$, that is, the higher sheaf cohomology of $\mathcal{F} \otimes \mathfrak{L}^n$ is trivial.