

## Slope inequalities for higher dimensional irregular fibrations

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*Dedicated to Professor Rita Pardini for her sixtieth birthday*

**Abstract.** We prove the equivalence between Clifford-Severi inequalities for good classes of varieties of maximal Albanese dimension and slope inequalities for such varieties fibred over curves. This provides a big set of new slope inequalities and characterizes the limit cases. It also gives a machinery to automatically obtain other higher-dimensional slope and Clifford-Severi inequalities from inequalities in low dimension. For this, we construct a continuous version of Xiao's method for irregular fibrations.

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