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Calabi-Yau 3-folds that are fibred by K3 surfaces

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Given X a K3 surface, any other K3 surface that is derived equivalent to X , corresponds to a moduli space of stable sheaves on it and these are determined by the corresponding Mukai vectors of invariants in the cohomology group of X . We consider fibrations of K3 surfaces, in particular those whose total space is a Calabi-Yau manifold and we define a dual fibration. We prove that both fibrations are derived equivalent.
