Rationality of rationally connected threefolds admitting non-isomorphic endomorphisms

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We prove a structure theorem for non-isomorphic endomorphisms of weak Q-Fano threefolds, or more generally for threefolds with big anticanonical divisor. Also provided is a criterion for a fibred rationally connected threefold to be rational. As a consequence, we show (without using the classification) that every smooth Fano threefold having a nonisomorphic surjective endomorphism is rational.

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