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Exponential mixing for skew products with a holder roof function
Consider the skew product $F(x, y)=(f(x), y+\tau(x))$ on $S^{1} \times S^{1}$, where $f \in C^{1+}$, as the base map, is (piecewise) expanding. When $\tau$, as the roof function, has $C^{1+}$ regularity (and not locally constant) it is known that $F$ mixes exponentially. However, in applications of this problem one is usually faced with $g$ being only Holder continuous with exponent strictly less than one. I will discuss the exponential mixing of $F$ in this more general situation.

