

ABSTRACT. Let \mathbb{P} be a probability measure and $\mathcal{H} \subseteq L^\infty(\mathbb{P})$ be a linear subspace and $0 < c \leq 1 \leq C$ real constants. Then we give a relatively computable criterion whether or not there exists a \mathcal{H} -annihilating probability measure $\mathbb{Q} \sim \mathbb{P}$ equivalent to \mathbb{P} with density $c \leq d\mathbb{Q}/d\mathbb{P} \leq C$. In fact we also prove a version where $L^\infty(\mathbb{P})$ is replaced by $C(K)$ for a compact Hausdorff space K .