

slln-lemma4^{11,40}

$\forall p:\text{FinProbSpace}, f:(\mathbb{N} \rightarrow \mathbb{N}), X:(n:\mathbb{N} \rightarrow \text{RandomVariable}(p;f(n))).$
 $\text{rv-iid}(p;n.f(n);n.X(n))$
 $\Rightarrow (\mathbb{E}(f(0);X(0)) = 0 \in \mathbb{Q})$
 $\Rightarrow \text{nullset}(p;\lambda s.\exists q:\mathbb{Q}$
 $(0 < q \ \& \ (\forall n:\mathbb{N}. \exists m:\mathbb{N}. ((n < m) \ \& \ q \leq | \sum_{0 \leq i < m. (1/m) * (X(i)(s))|))))$