$$P\left(\left|S_{2^{\kappa+1}}\right| - S_{n}\right) > 2^{\kappa} \varepsilon + P\left(\left|S_{n}\right| > 2^{\kappa-1}\varepsilon\right)$$

$$P\left(\left|S_{2^{\kappa+1}}\right| > 2^{\kappa-1}\varepsilon\right) + P\left(\left|S_{n}\right| > 2^{\kappa-1}\varepsilon\right)$$

P(
$$|S_{2^{n+1}}| > 2^{n-1}\epsilon$$
) + P($|S_{1}| > 2^{n-1}\epsilon$)

So, for $|N > N|$, $|P(S_{1}| > \epsilon) < \delta$)

P($|S_{1}| > 2^{n-1}\epsilon$) $|E| < (|S_{1}| > \frac{1}{2^{n-1}}\epsilon$)

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So $|S_{1}| = |S_{1}| = |S$

$$X = d. Str. bation, E(X) = 0, E(X) = 1$$

$$X_{j} \stackrel{d}{=} M_{j} + 0, X_{j} X_{j} - independent.$$

$$E(X_{j} - converges)$$

$$0 = X_{M} > 0 \quad a.s.$$

$$0 = E(X_{M}) = \prod E(e^{-X_{j}})$$

$$E(X_{M}) = M_{j} V_{M}(X_{M}) \leq P(0), Cov(X_{M}) \leq 0$$

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$$Cov(X_{j}, X_{j}) \leq P(i-j).$$

$$E(X_{M} - M_{j}) + \dots + (X_{M} - M_{j}) \leq 0$$

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$$E(X_{M} - M_{j}) + \dots + (X_$$

HITH HE Ynedo, 1, 2). bases $y: y_j \neq 1.$ $P(A) = P(\sum X_j/3i \in A).$ $E(\frac{V^2}{N^2}) \stackrel{?}{\rightarrow} 0.$