







MAS ÛM 6) X:.. Folge identish verteiller SG, XXX, EXCO X; paon ware unkonseliet 22: p-lim X = p-lim + ZX; = #X Ischebyscheff-Ungleichung P(1X-Mx 13k) & 6x2 Jalls Mx=E(X), G=W(X) < 00, k>0  $E(X) = \frac{1}{2} \sum E(X) = \frac{1}{2} \sum E(X) = \frac{1}{2} E(X) = \frac{1}{2} \sum E(X) =$  $\frac{7}{6} \frac{2}{x_n} = V(X_n) = \frac{1}{n^2} V(\frac{1}{2} \times 1) = \frac{1}{n^2} \frac{1}{2} V(X_n) = \frac{1}{n^2} (n \cdot V(X)) = \frac{1}{n} \frac{1}{2} \frac{1}{2} V(X_n) = \frac{1}{n^2} \frac{1}{$ uniorrellial=>V(X+Y)=V(X)+V(Y)+2 Cov(X,Y)-V(X)+V(Y) P(|Xn-Mx| > K) & 6x2 1 m x2 m > 0 Vk>0 => p-lin X = Mx = EX led p-lin X = X (=> V E>0: lin P(1Xn-X1>E)=0  $[X_i, X_j] = \mathbb{E}(X_i) - \mathbb{E}(X_j) = \mathbb{E}(X_i) - \mathbb{E}(X_j) = \mathbb{E$ => E(X2) = mx < 00 ⇒V(X)<∞ (eigellich sogen W(X)=0) S bei  $V(x)=0 \Rightarrow V(x_n)=0 \Rightarrow x_n = \frac{1}{n} \stackrel{?}{\sum} x_i = E \times almarch y-line$