Distributioni joursière e tecrere del linte catale Riordo: (la N.a resole X sa (R, F,P) si dise rounde standard (galvière d'meste ser evouisse so) se X è assolutorrade rentina $=\int_{-\infty}^{2} f_{x}(x) dx = \int_{-\infty}^{2} \int_{-\infty}^{2} e^{-x^{2}/2} dx = \int_{-\infty}^{2} (2) \times 2 \int_$ YZER FX(Z) = P(XSZ) Note: \$\P(0)=\frac{1}{2}\$ \P(\frac{1}{2})=-\P(\frac{1}{2}) Siono MER, OXO, X mormole Aferdand 6 M2 J x . Lx (a) dx = 1 5 xe dx. 5 xe dx Parismo Y= 11.0.X >5[Y]= 11.00. 5 D) = 11 101 (Y)= 101 (0-X)=02 von (X)=02

Y'e assulbertonent satine Tunciore di ciporti sine 42 ED ψωνιστε μι ιση «πιτιπε νεττά Εγ (2) 2 P(Y ⊆ 2) 2 P(X ⊆ ₹ - μ) = 1 S e « 1X | X = ₹ - μ V2π - ∞ $=\frac{4}{\sqrt{2\pi}}\int_{-\infty}^{2\pi}\int_{-\infty}^{$ Def. the or or roade Y si also favorias di madie pe e voiente o2 x Le ondet extine en derité date de fg (Y) = 1 l'202 exercisor

(A) Le YN (M, 02) on 62) caloo X= (1-11) enomale standord E Sie Yn N(u, o²). albre 2= û too' y de goussiere di medie û tôju e noienzo to. 2

Sino XVN (pr.02), YNN(pr.02). Le Xe Your indipendent sellos X+7 NN (Mg. 42.02 +02 Ofter rae: Le some et v.a gaussiere differdati von à recesse riemente gaussiere Signo ZNN(0,1) E= Rod(1), (P(E=1)=1, P(E=-1), supposedo E, Z interperolati. Poriono $Y = \{7\}$ $Y (CM) = \{7(W) | Q \in E(W) = 1$

7+7 = \$27 se E=1 In postbodore se 7+7 ponè ne sertate ne assolutione salone

alore Y v N(0,1) me 7+7 non è gressione

france
$$X_n \in \mathbb{N}$$
, w.o. in \mathbb{N}^2 i. i. of ion $M = 5 \times \mathbb{N}$ of \mathbb{N}^2 to \mathbb{N}^2 Support and \mathbb{N}^2 or \mathbb{N}^2 of \mathbb{N}^2 of \mathbb{N}^2 of \mathbb{N}^2 of \mathbb{N}^2 or \mathbb{N}^2 of \mathbb{N}^2 or \mathbb{N}^2 or

Mote > 5 (5m -m) = 6 (m = 0 (i-m) = 1 2 5 (i-m) = 0 NOT (Sn-m)= rot (Sm) - NO (Si)= of

06/07/2021 Sollecitato 2[^] rata Pigioni 2021

Perieno Zn=Vn (Snom) -) 5/2m7=0 Nor (2m) = m- Nor (5m) = 02

Z= 1 (2 x=m) -) mfilt (p(sn-m/2E) -) 0

Completoneto do En per n->00 Conveyense delle fersione d'apportaine forience - Forience - Ton = 1 (E) -m), nen

hetalofdripolitiond In -> HEER Fan (2) 30 F(2) NOO2)

=1 + (e-2/2/2/2)

analgorete > Zn = 1 (Zxi-m) = 2 Zn (Nor (Zn)=1, E (Zn)=0

Sore M 26 (2)

Mercine del limite centrale Le (Xm) ner in (-2, F,P) in 12 une suscessione de N. a. i. i.d. Parieno -> Zn= In (\$\frac{2}{2} \times m), meN, dove m = 5(\tilde{x}) For lat of reportitione of 7m Perohè le distr-grassière? Liens Xi, - Im W.a. ind Xi-yu -> N (0,02) per la gamiene E(Xi-yu) a N (0, m,02) & l'introdavo $\rightarrow \int_{\mathbb{R}^{n}} \left(\sum_{i=1}^{\infty} X_{i}, \mu \right) \sim \mathcal{N}(0,1)$ con 7~N(0,02)