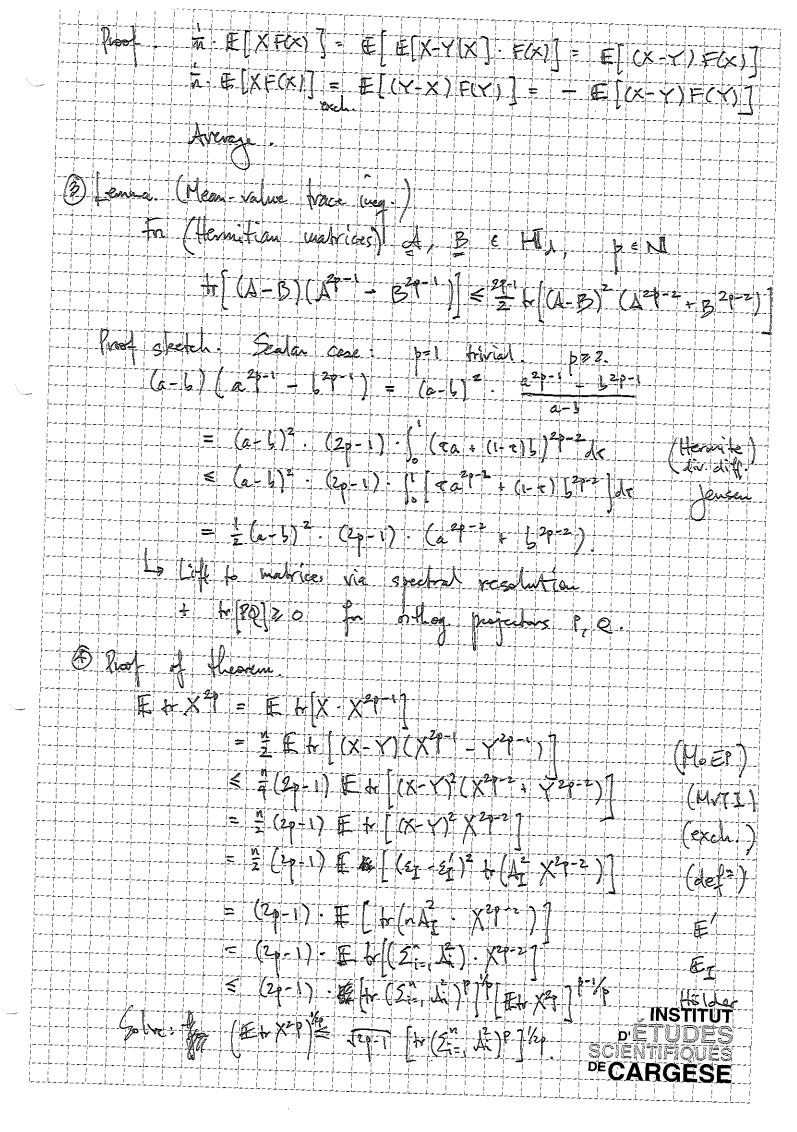
HIGH-DIM. PROBABILITY. 29 MAY 2014 MATRIX CONCENTRATION NEWS. VIA EXCHANGEARE PAIRS DO IN THOSP / CANTELS / COMPUTING + MATH SCA. (CINS) assidal PUT: EARLY EXAMPLES · Humilz (19° cel) AVG WER ORTHOG. GROUP. - Wishout (1927) SAMPLE COVAR. NORMAN POP. · von Neumann - Goldston (1951) GANGS roper For pondoing Exe : Wigner (1955) WIGHTER MIX AS MODEL FOR HAMILTONIANS Examples involve highly Equation models By now, we know everything about these when undice, MODERN PAT: NEW MOUCATIONS algorithms · Pandanied DM. KOWX PAND NA · Compressed of function RIAX + Claudo METHOX Multivariate statistics, ML, SP DATA MODELS · Compressories, luck-dem gernety, quantum IT makine but tack symmetries that drive classical theory. But we don't beed so much (ato (158) by many cases, can apply methods from mot. Barach spaces but these do not yould constants, regime expertise GoA: Sueple, widely applicable took for studying - of when matrix mores from application Two we fue PRIWCIPIES: O w applications, common that a clar water can be written as a sum of indep. volus matrices 1 There are polynomial, exponential around INSTITUT wegs for grand now of a gum of SCIENTIFIQUES ludez - volum matrices.





EXTENSIONS: 王= 5= 红色 In pen1, (E 1121/2 ) 1/2 ≤ 12p 1 (ΣΒ,Β; 1/2 1/5, V) (ΣΒ,Β, 1/2) Pf. Pake Si = [8 0]. · Rosenthal - Pinelie sueg. for matrices with X & HI color (EIX 140) /40 5 JAP-1 1 (5: EX2) 1/2 1/40 + (4p-1) (Z; EIX; 14p) /4p. Howest weg associated will matrix Beruste: Others: Chernoff Bennitum, Bennett, Mc Diennich, Efrom - Stein Freedung they or telested methods Palemala Toeplitz matri XAMPLE: alun Zi (ich Parlemeter 1 = E = (S\*) 50 (50) (50) + E= (8-1) [ (5x) = (1-1) ] E 11 T 1 = (# 11 1 | 2p ) / kp < (26gd) =1 (6 (d-1)] 1/2P 5 & 12/og d Optimal const (Sen-Viver 2012) 1 0.8288 [2]