

>1-(8) k los (1-22) = los (8 $k \ge \frac{\log(8)}{\log(1-2\varepsilon)}$ (does not dependon n) combine doniel Approximation Algorith (nax opti) Ophmisahor Robles man size of cut An algo A is an d-approximation mis vestex over (20PT(X) < A(X) < OPT(X) (maxin ratching.) We saw (= E) - appropriate hou max sahishabilib poblen max independent set also. Los MAXCUT. (min spans tre Randomized Approximation Algerithm Randomized Complexity Classes RP: 10 the class of L > Pr [2 OPT(x) & A(xc) & OP(T(xc)) > 2/2 decided by nandomia poly I'me TMs YLERP, 7 Mc NPSRP Por [M (oc, 91) = 1] = 1/200 /12 PS(RPSNP) TXELD Pn [M(x, n) = 1] = 0) if xEL, large # of certificates (sendom com) makes ML accept RPy = RP L 2C & E C (tarivial) 2 (by boestry, supetition)

≥ 1-/(1-2E)k

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