Les preuves sans mots

Metz 2012

Journées nationales APMEP 30 octobre 2012 Xavier Viennot

avec

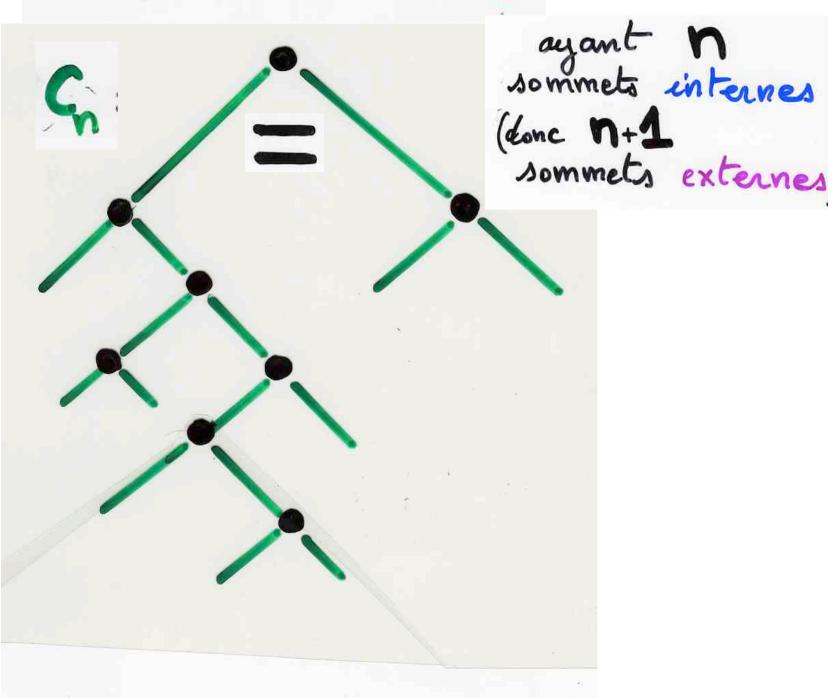
Gérard H.E. Duchamp (violon)

animation au violon

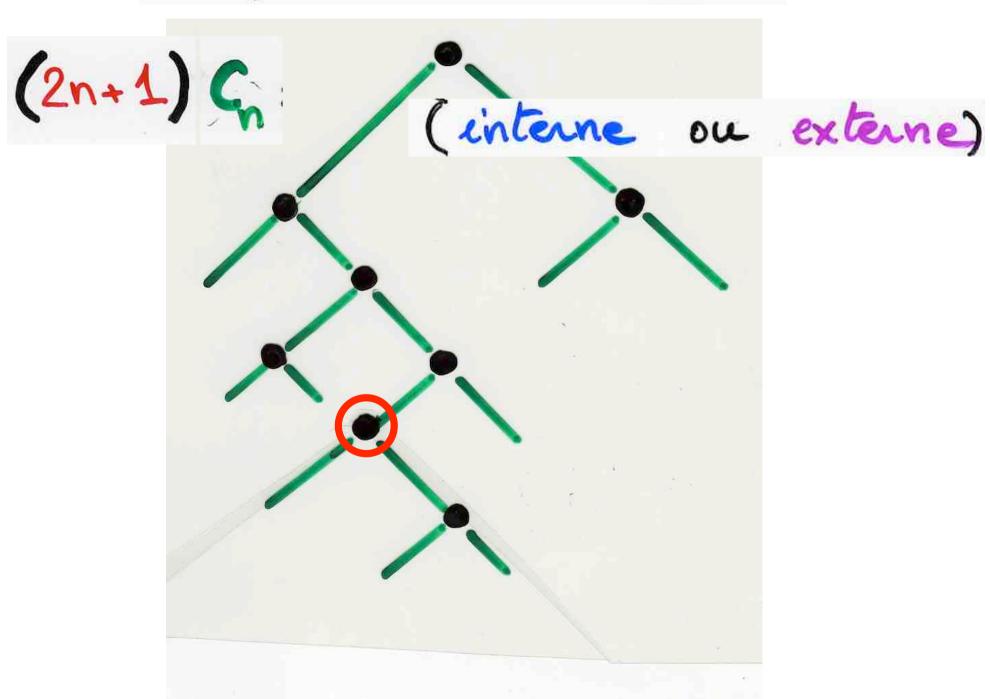
une preuve sans mots

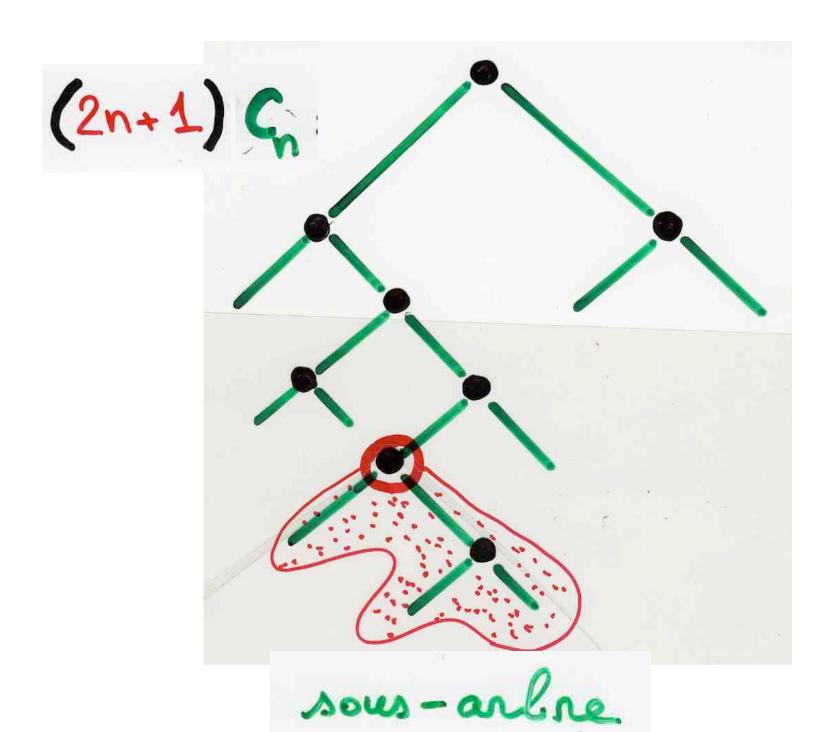
$$2(2n+1)C_n = (n+2)C_{n+1}$$

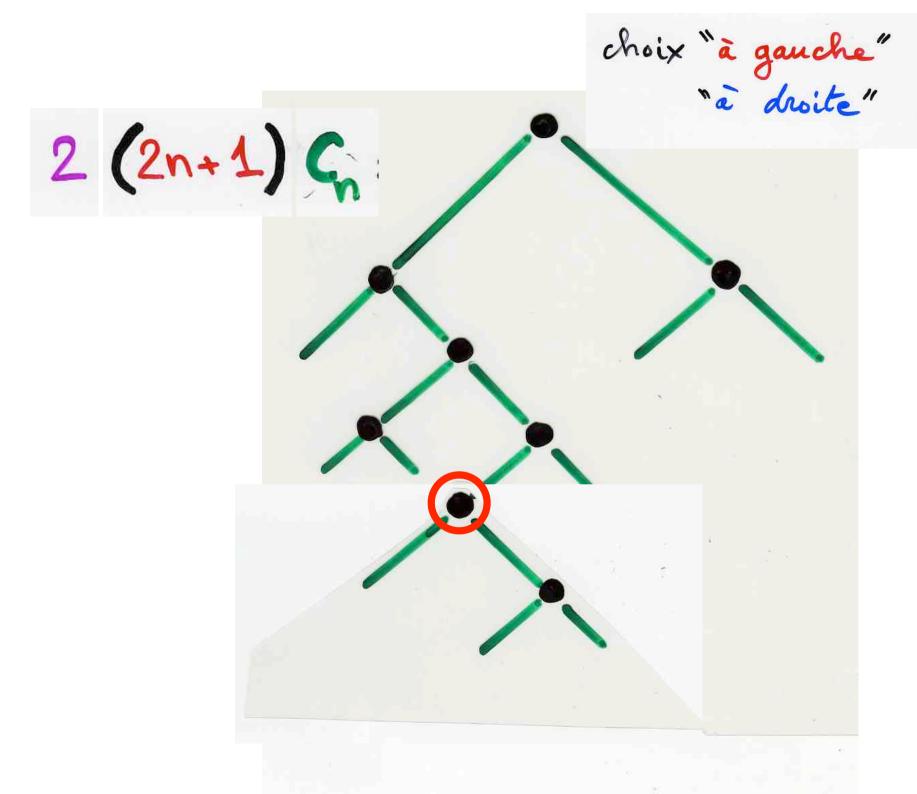
choix d'un arbre

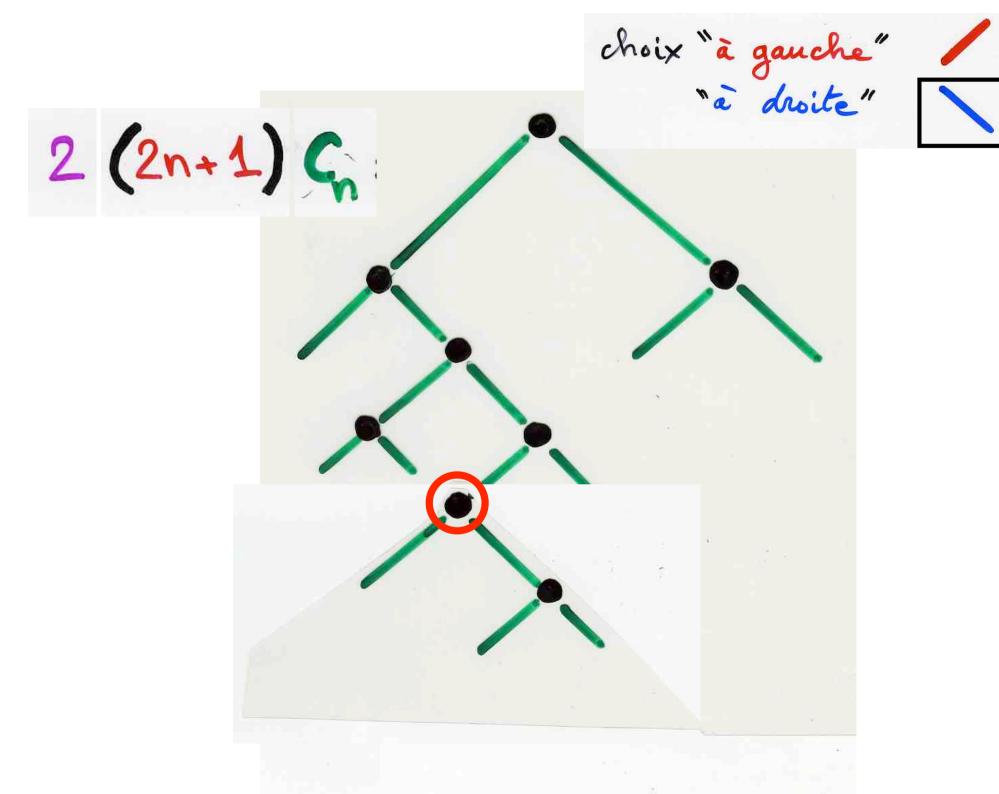


choix d'un sommet

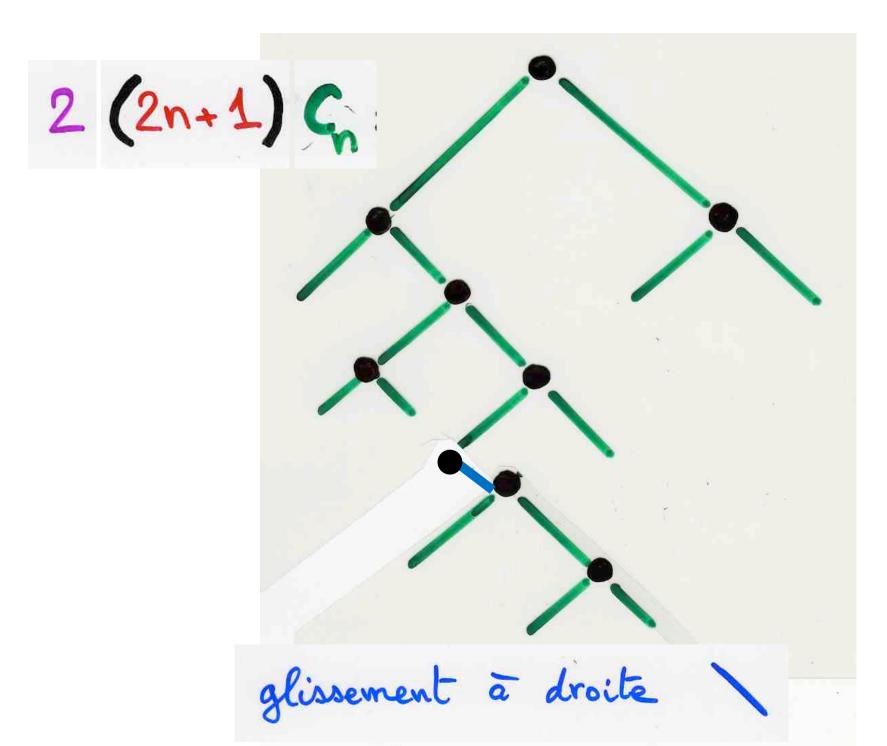


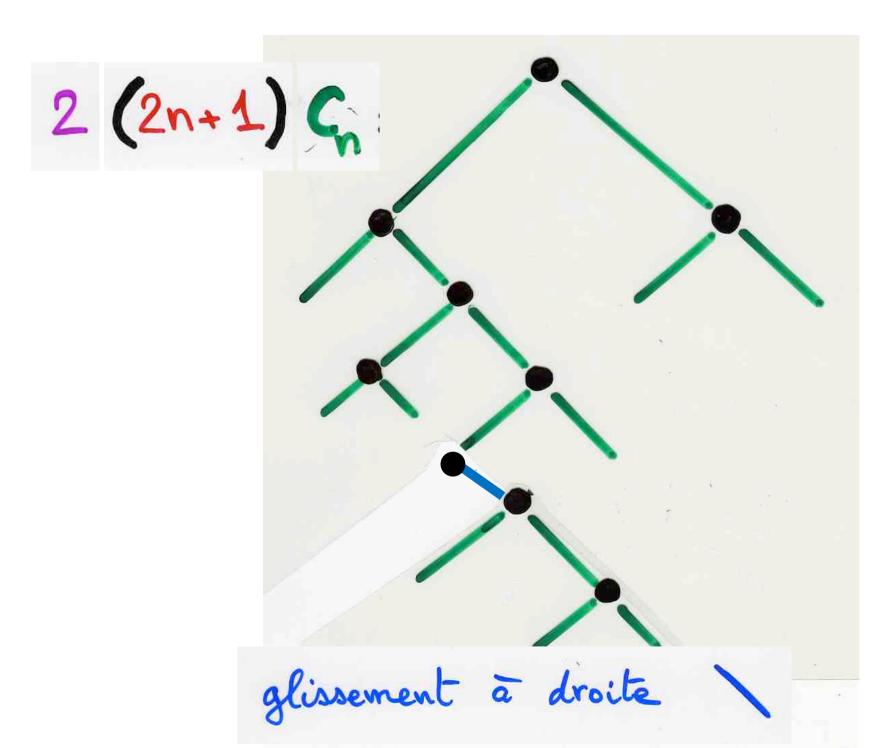


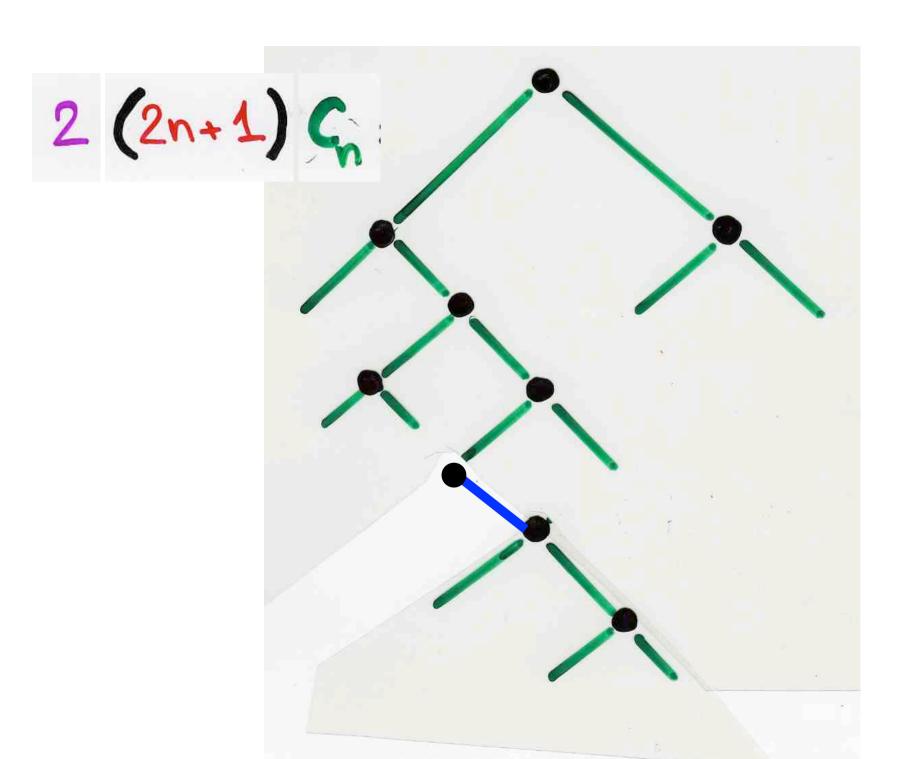


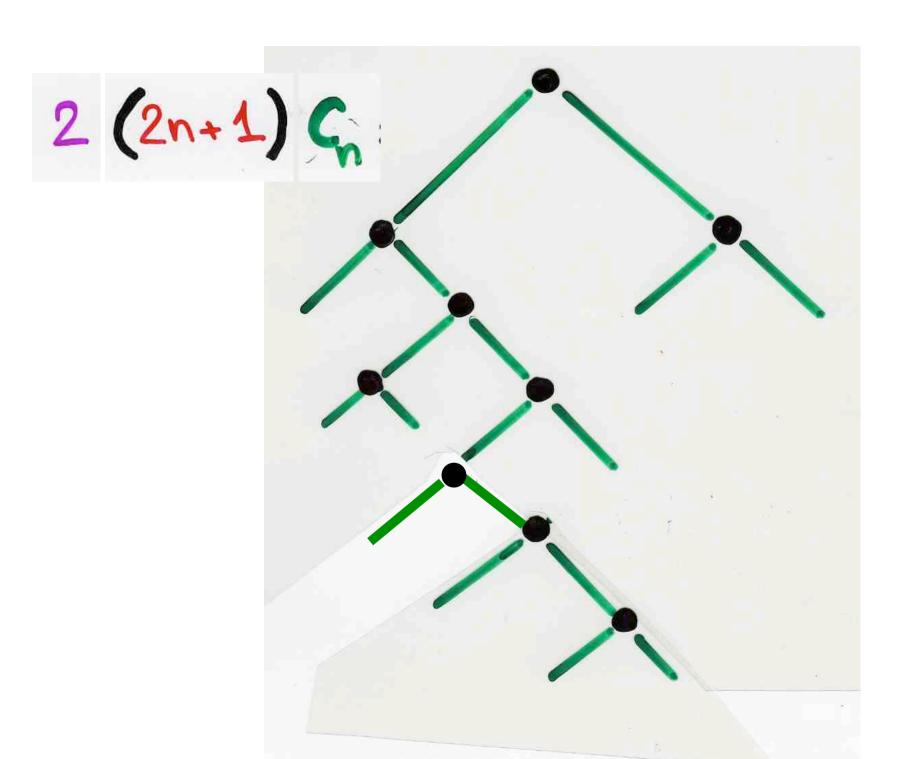


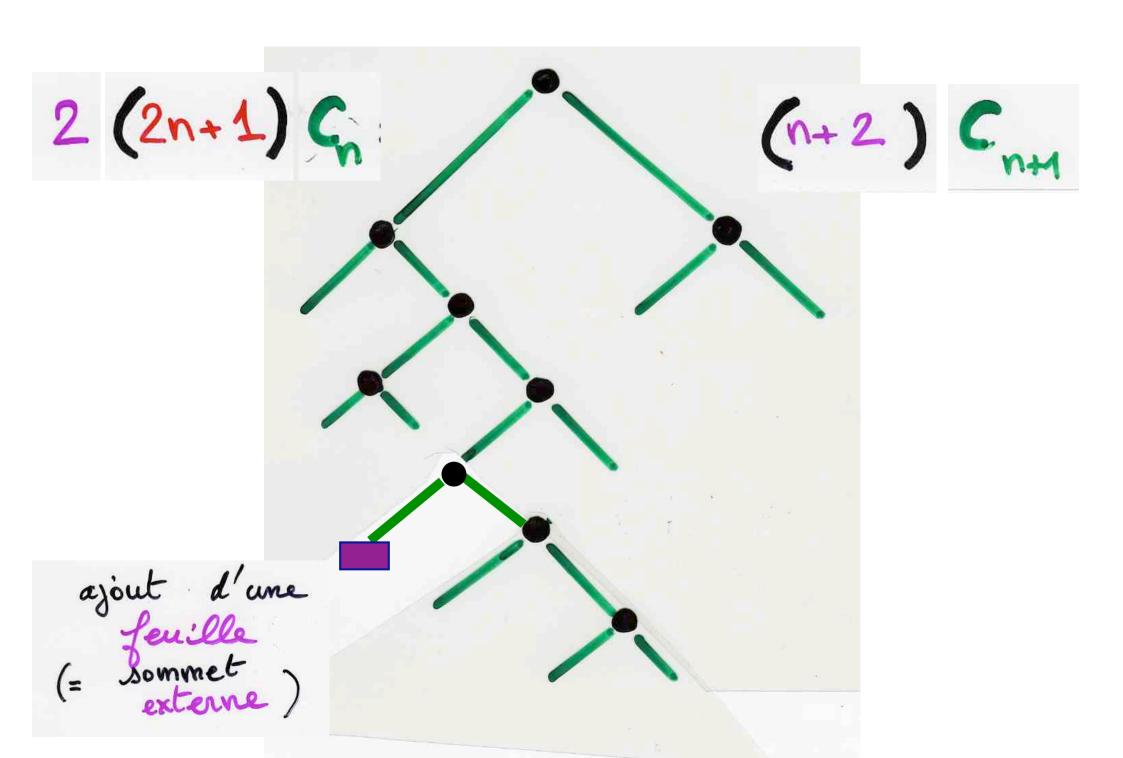
2 (2n+1) C glissement à droite











$$2(2n+1)C_n = (n+2)C_{n+1}$$

bijection séciproque

$$2(2n+1)C_n = (n+2)C_{n+1}$$

choix d'un arbre

