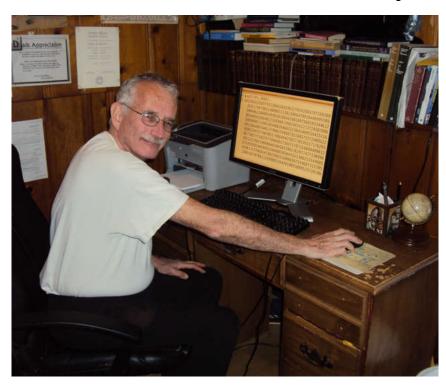
Honoring Doron At his 70th Birthday



Beginnings









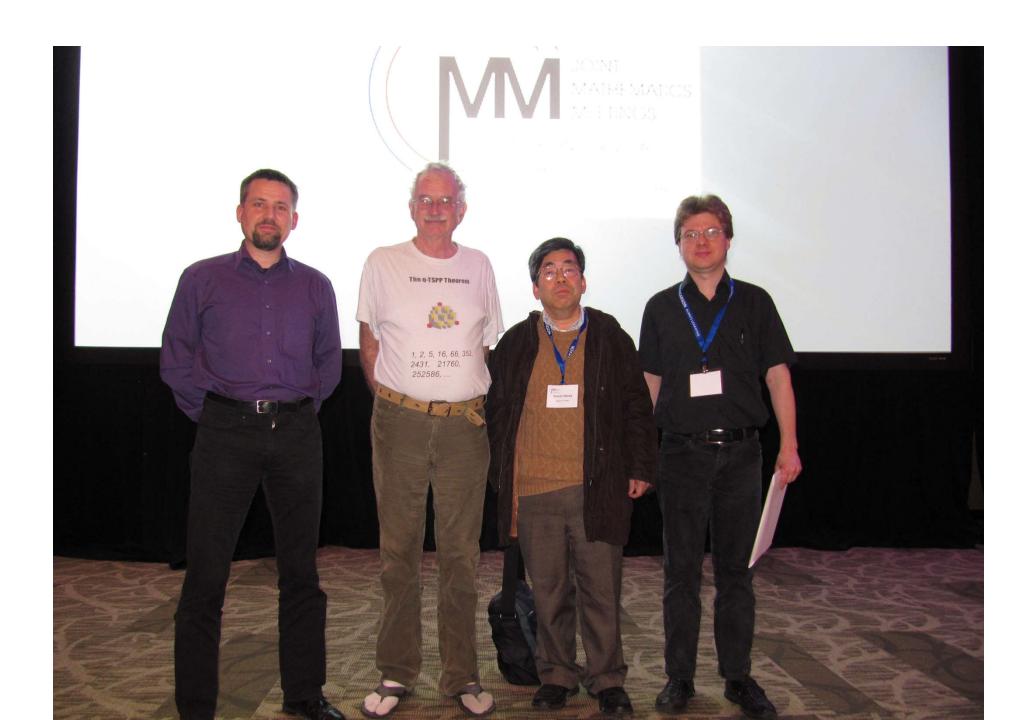




With Colleagues











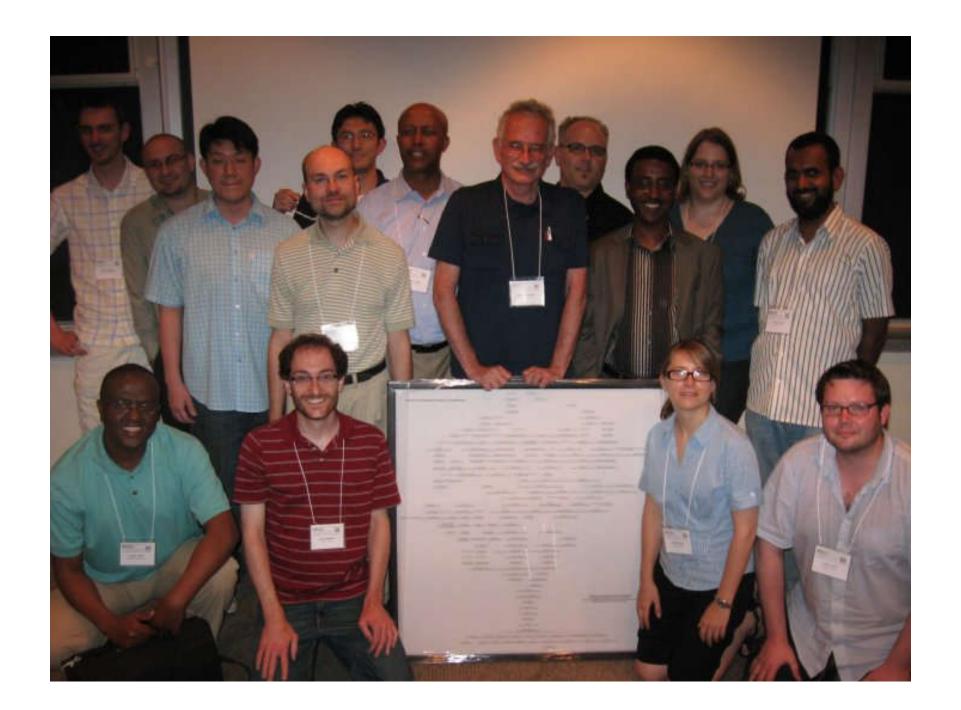








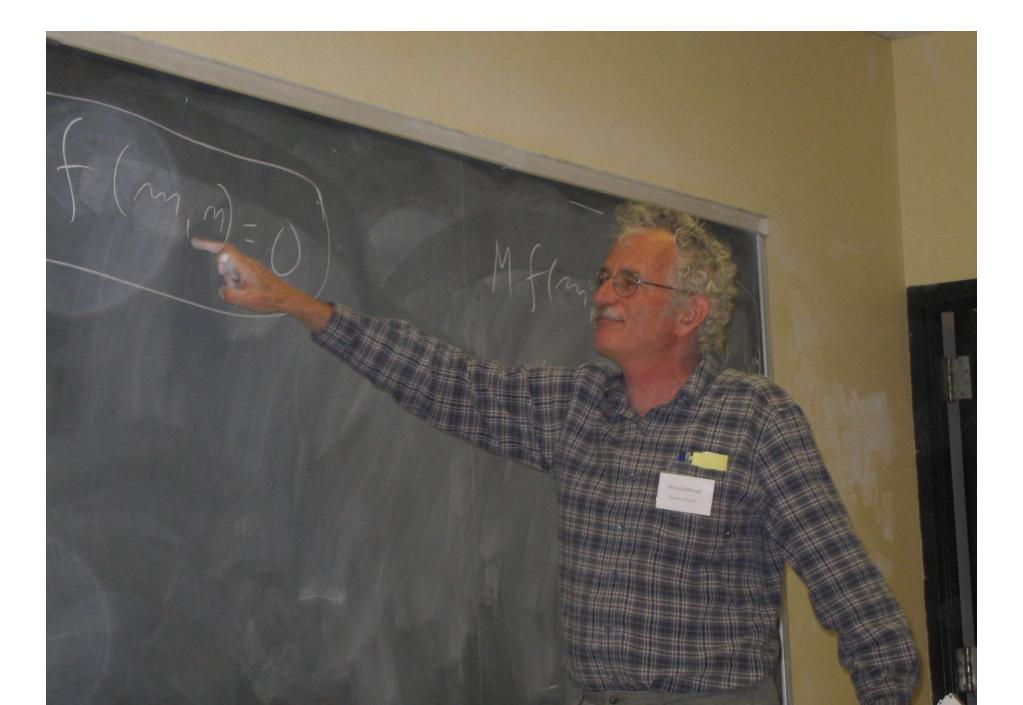




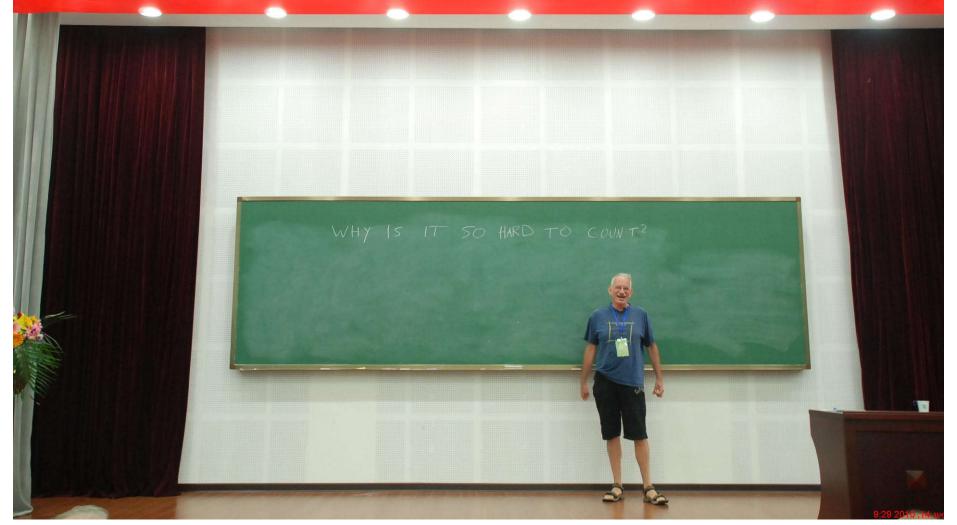


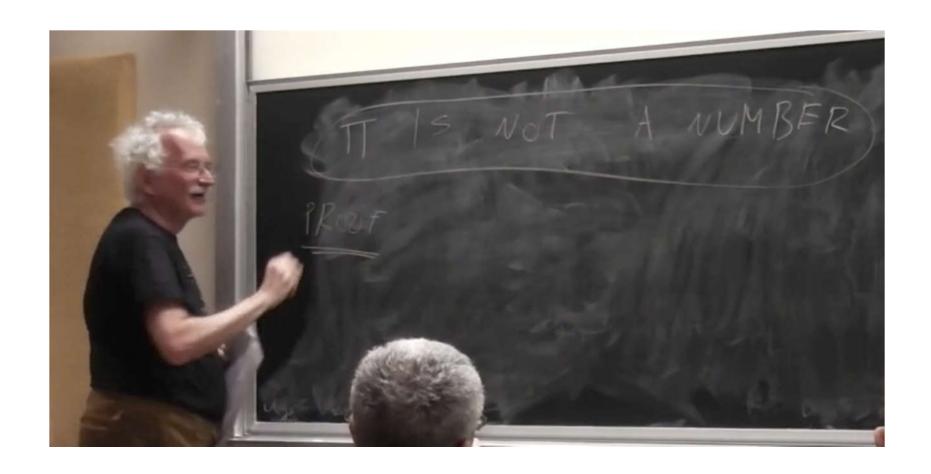


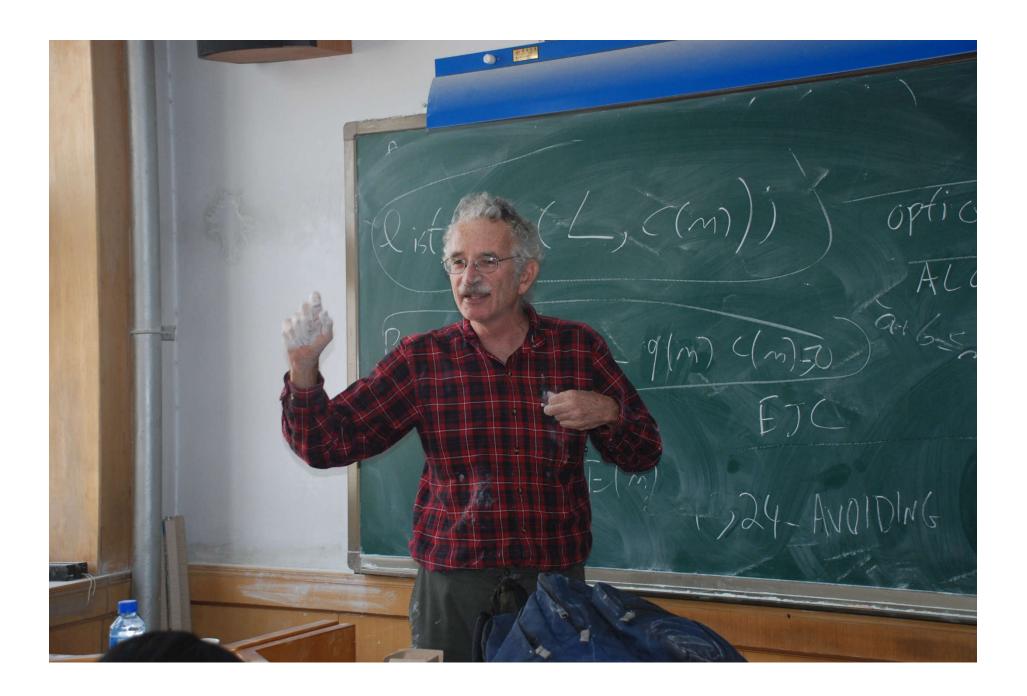
DZ Lectures



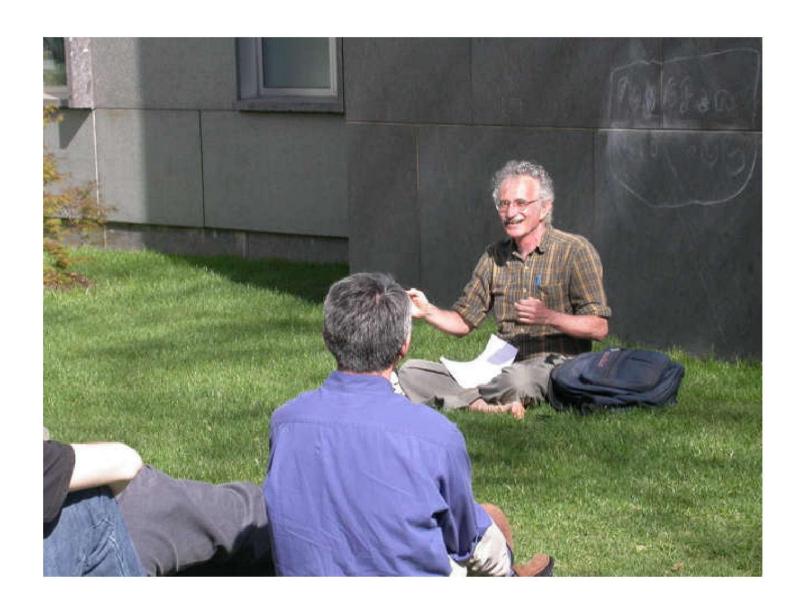
The Renaissance of Combinatories: Advances—Algorithms—Applica

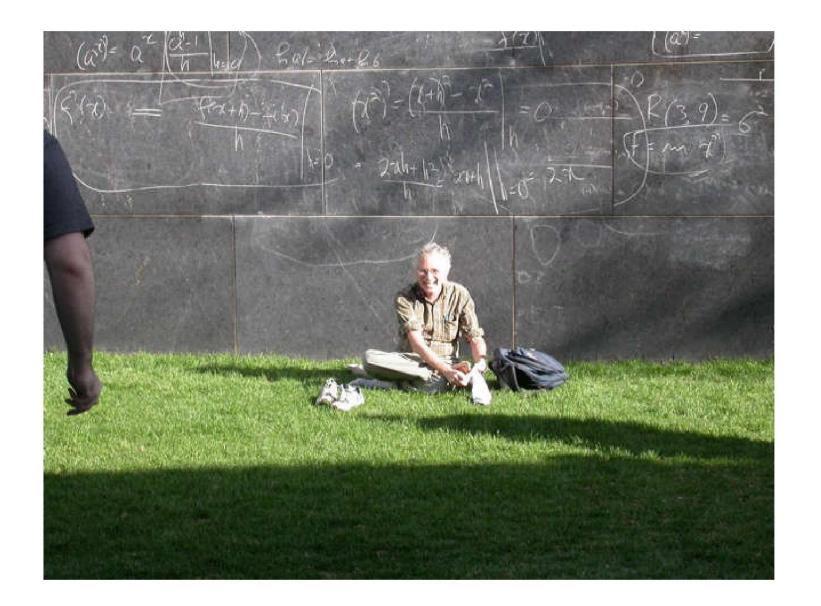










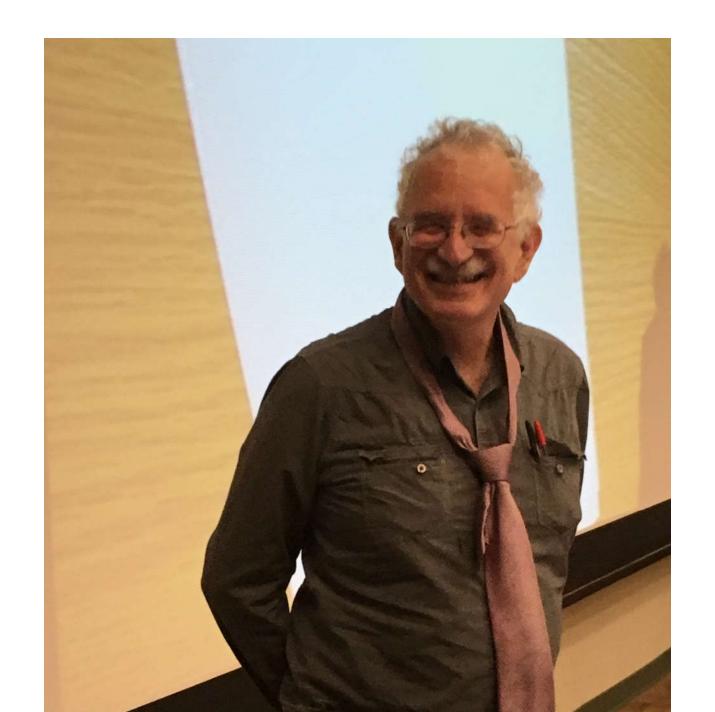




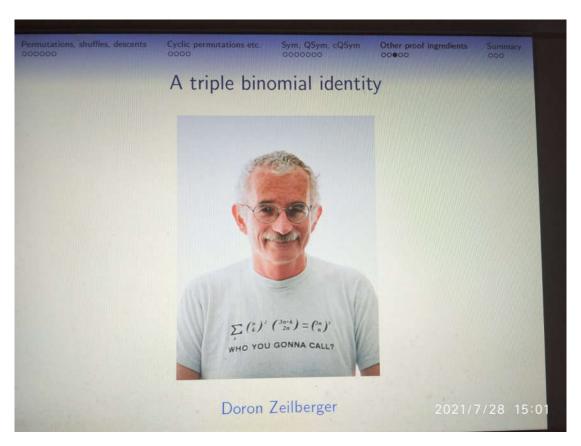


DZ in a tie???





And with T-shirts, of course



A triple binomial identity

$$\sum_{k} \binom{n}{k}^2 \binom{3n+k}{2n} = \binom{3n}{n}^2$$
WHO YOU GONNA CALL?

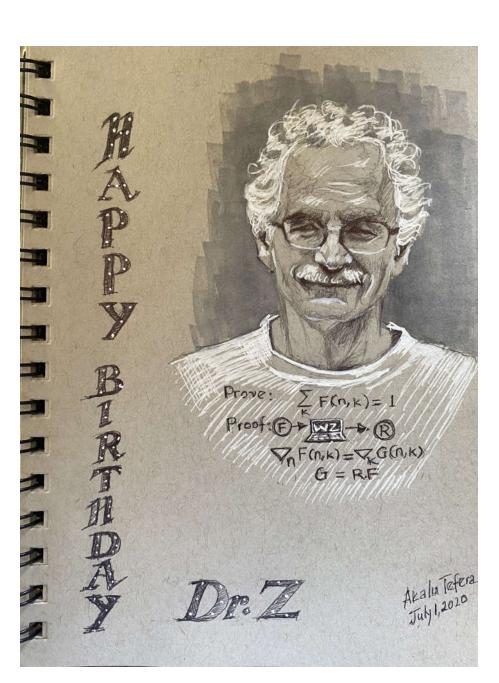
This is a special case of the triple-binomial identity

$$\sum_{k} {m-x+y \choose k} {n-y+x \choose n-k} {x+k \choose m+n} = {x \choose m} {y \choose n}$$

which is equivalent to the hypergeometric identity

$$_{3}F_{2}\left(\begin{array}{c|c} a,b,-n \\ c,a+b-c-n+1 \end{array} \middle| 1\right) = \frac{(c-a)^{\bar{n}}(c-b)^{\bar{n}}}{c^{\bar{n}}(c-a-b)^{\bar{n}}}$$

due to Pfaff (1797) and Saalschütz (1890). We use the general case.



MAZAL TOV

Doron!

AD 120!