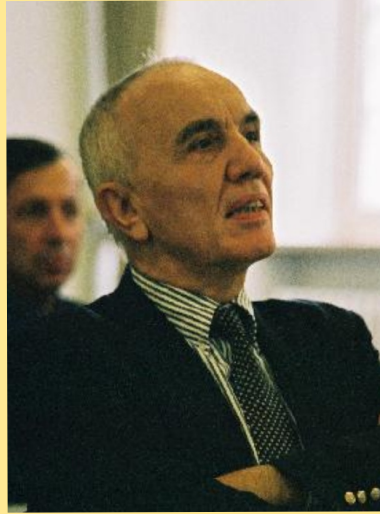


# Dominique Foata is turning 90 !



Mireille Bousquet-Mélou, Bordeaux







Strasbourg



Bordeaux

# Problèmes combinatoires de commutations et réarrangements



## Problèmes combinatoires de commutation et réarrangements

Broché – Grand livre, 22 février 2009

de Pierre Cartier (Auteur), Dominique Foata

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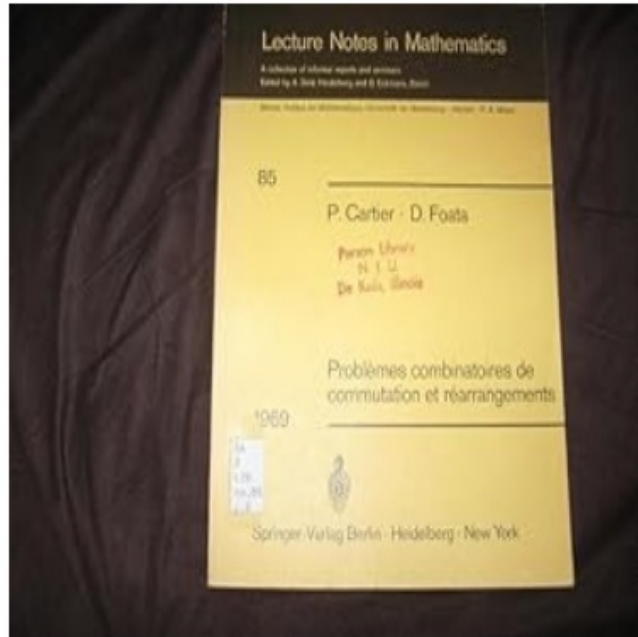


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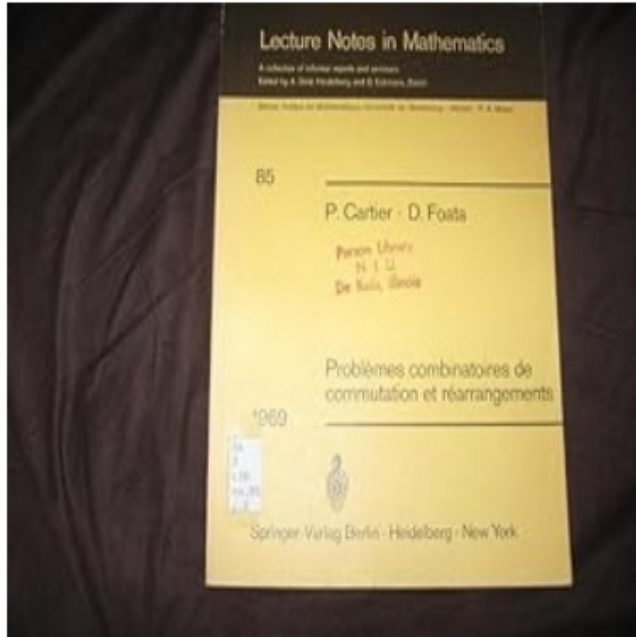
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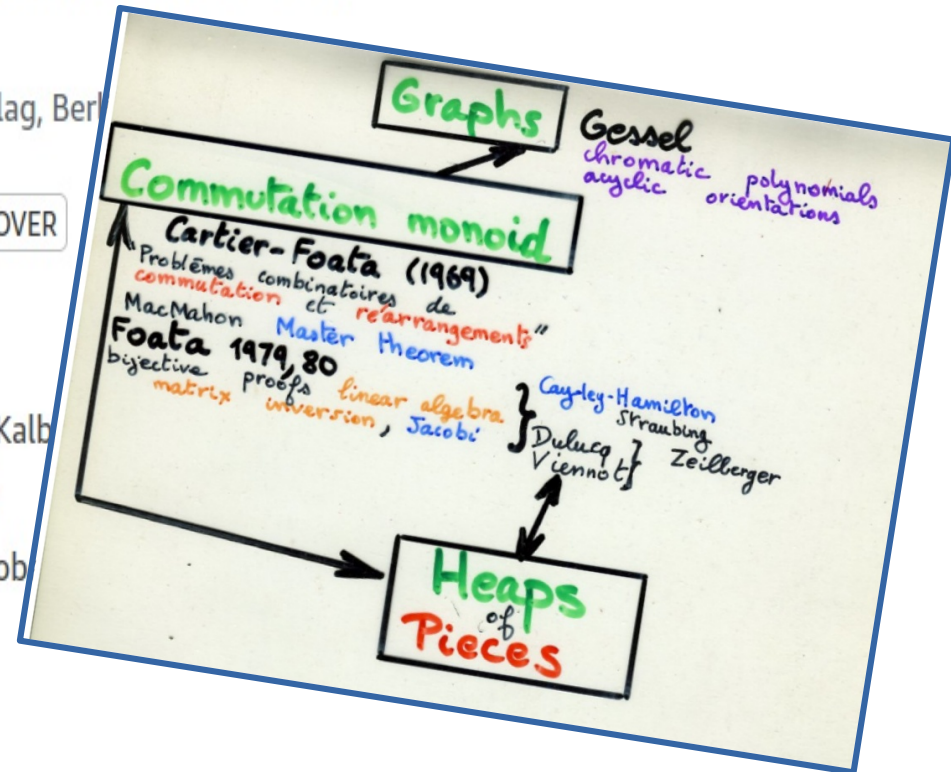
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# Le séminaire lotharingien de combinatoire

My very first meeting... Rouge Gazon, Jan. 1990





# Le séminaire lotharingien de combinatoire

My very first meeting... Rouge Gazon, Jan. 1990





# Le séminaire lotharingien de combinatoire

My very first meeting... Rouge Gazon, Jan. 1990

and also my very first talk...

①

Nombres de Catalan et  
percolation dirigée -

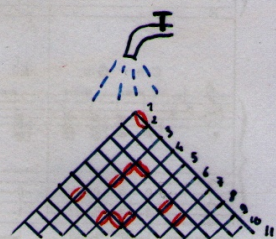
R.J. BAXTER et A.J. GUTTMANN "Series expansion of the percolation probability for the directed square lattice".

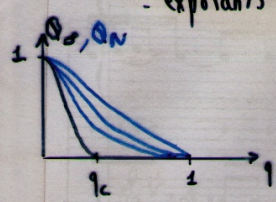
Modèle -

$\diagup$  =  $\begin{cases} \text{ou} \\ \text{ou} \end{cases}$  avec probabilité  $\begin{cases} q \\ 1-q \end{cases}$

Problèmes:

- calcul de  $Q_N(q) = P(\text{percolation})$
- valeur critique de  $q$
- exposants critiques au voisinage de  $q = q_c$





Mais:  $Q_N(q) = P(\text{le niveau } N \text{ est atteint})$

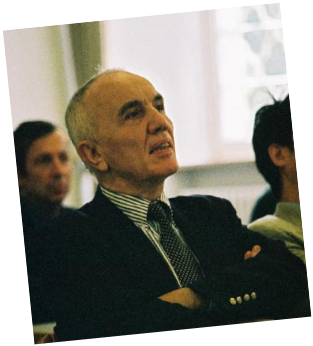
$\downarrow$   
 $N \rightarrow +\infty$   $Q_D(q)$

$\Rightarrow$  calcul de  $Q_N$  ( $N \leq 29$ )

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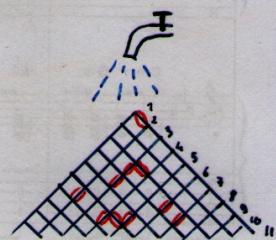


Nombres de Catalan et percolation dirigée - ①

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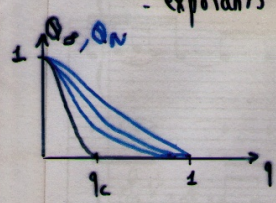
Modèle -  
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- valeur critique de  $q$   
- exposants critiques au voisinage de  $q = q_c$



Mais:  $Q_N(q) = P(\text{le niveau } N \text{ est atteint})$   
 $\xrightarrow{N \rightarrow \infty} Q_\infty(q)$

$\Rightarrow$  calcul de  $Q_N$  ( $N \leq 29$ )

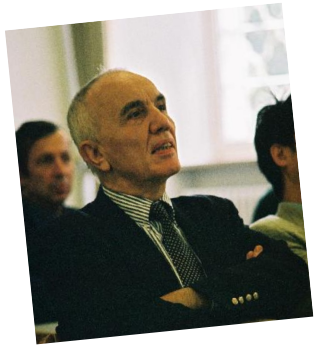




# Le séminaire lotharingien de combinatoire

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Problèmes:

- calcul de  $Q_N(q) = P(\text{percolation})$
- valeur critique de  $q$
- exposants critiques au voisinage de  $q = q_c$

A graph showing the percolation probability  $Q_N(q)$  as a function of  $q$ . The x-axis is labeled  $q$  and has a critical value  $q_c$  and the value 1. The y-axis is labeled  $Q_N, Q_N$  and has the value 1. Several curves are shown, all starting at  $(0, 1)$  and ending at  $(1, 0)$ . The curves are concave down and cross the x-axis at  $q_c$ .

A diagram of a directed square lattice. At the top, there is a water tap with blue dashed lines representing water falling onto the lattice. The lattice is a grid of squares. Red paths are shown starting from the top and moving downwards, representing percolation paths. The paths are labeled with numbers 1 through 10.

Mais:  $Q_N(q) = P(\text{le niveau } N \text{ est atteint})$

$\xrightarrow{N \rightarrow \infty}$   $Q_\infty(q)$

$\Rightarrow$  calcul de  $Q_N$  ( $N \leq 29$ )



# More séminaires...



Ellwangen 2002 © Markus Vöge



# More séminaires...



54th session



Lucelle 2005 © Ira G.



# More séminaires...



50th session, Domaine Saint-Jacques, 2003



Merci  
Dominique !



Merci  
Dominique !

