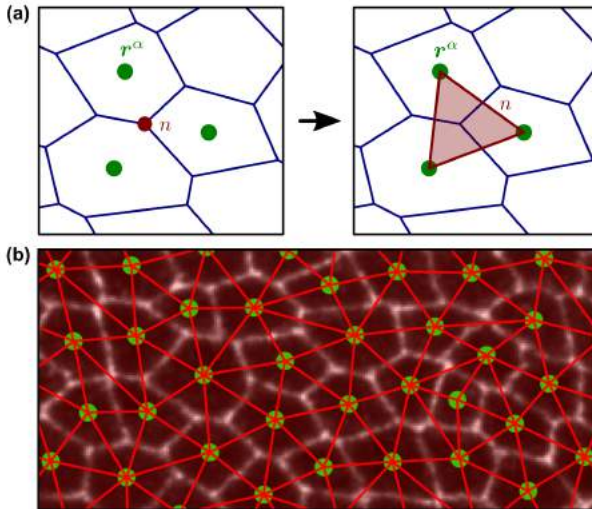


Cours 5 et 6 : Modèles de Vertex

J.F. Joanny

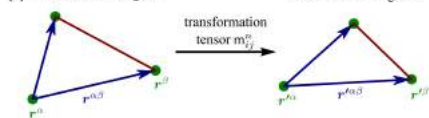
Cours 5 et 6, Collège de France, 2 et 9 mars 2020

Triangulation du modèle de Vertex *Merkel et al.*

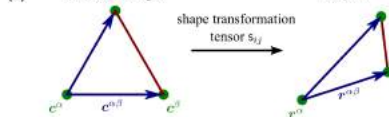


Déformation des triangles *Merkel et al.*

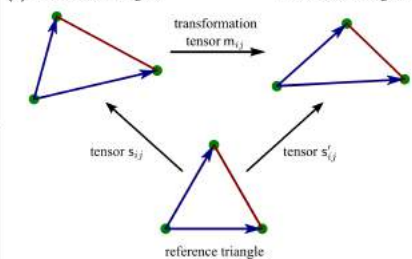
(a) initial state of triangle n



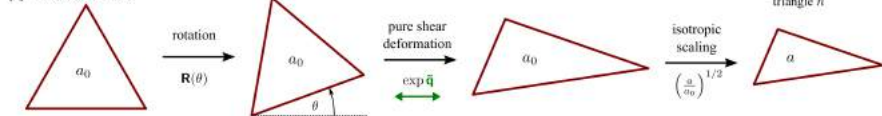
(b) reference triangle



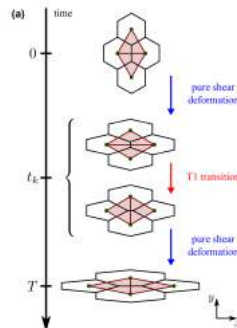
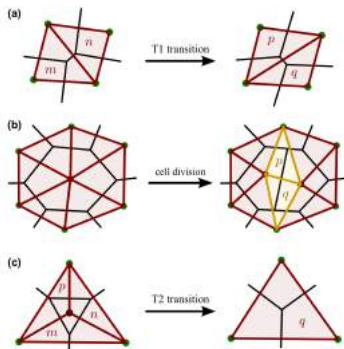
(d) initial state of triangle n



(c) reference triangle

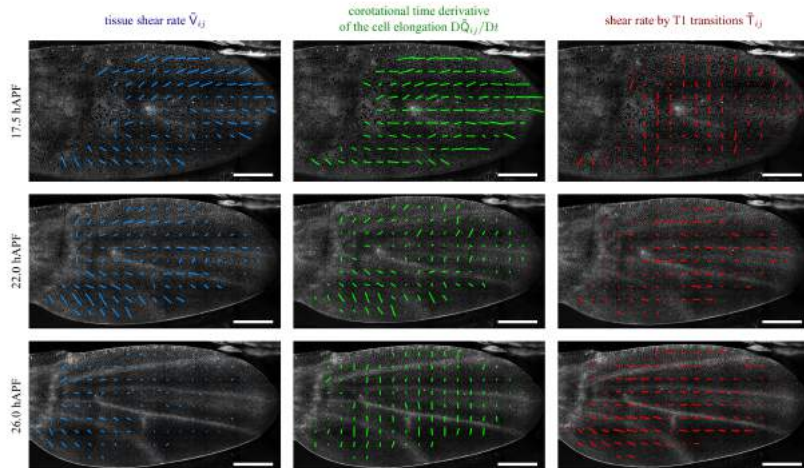


Transformations topologiques *Merkel et al.*



- A la T_1 transition $\Delta \tilde{Q}_{xx} < 0$ et $T_{xx} > 0$
- T_1 transitions avec $T_{xx} < 0$

Aile de la pupe de la drosophile *S. Eaton*

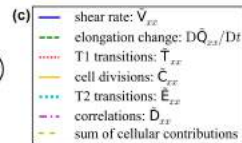
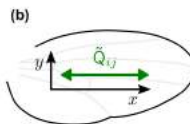
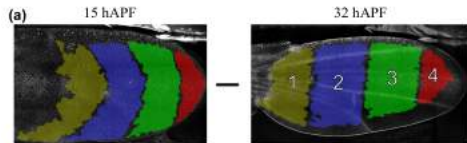


- Taux de cisaillement, élongation de la cellule, Processus T1

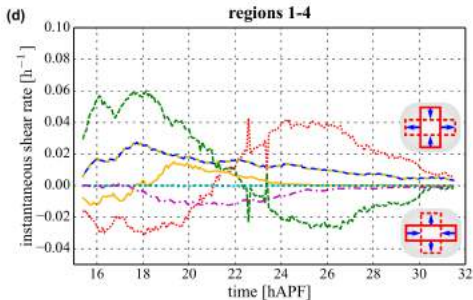


COLLÈGE
DE FRANCE
— 1530 —

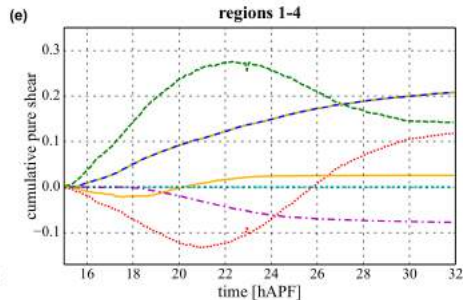
Taux de cisaillement



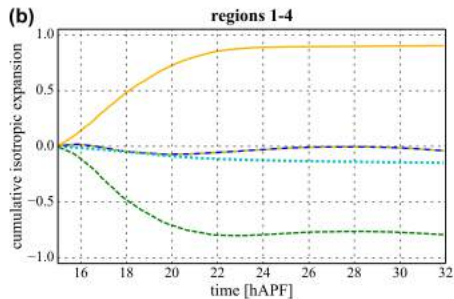
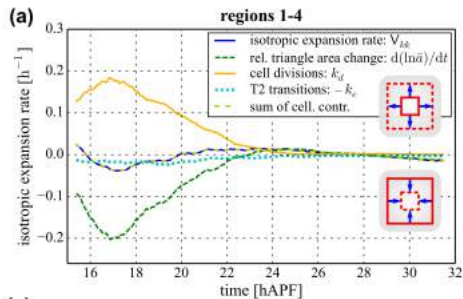
regions 1-4



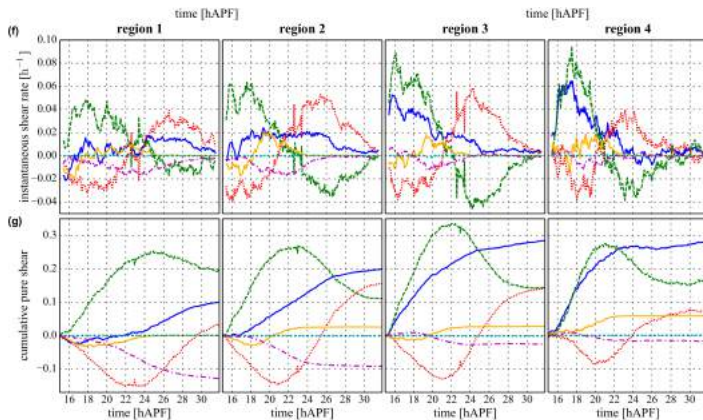
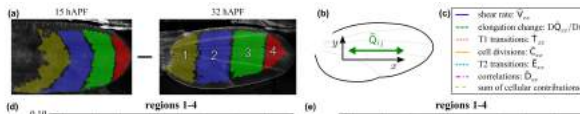
regions 1-4



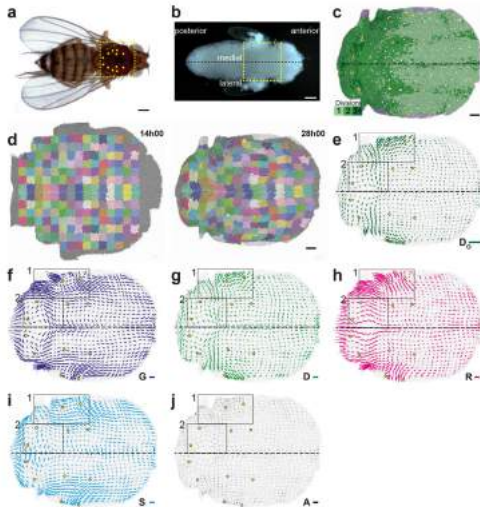
Croissance isotrope



Variation avec la position



Notum de la puppe de la *Drosophila* Guirao et al.



- Time average over 14h
- Correlation term ignored
- Junctional stress