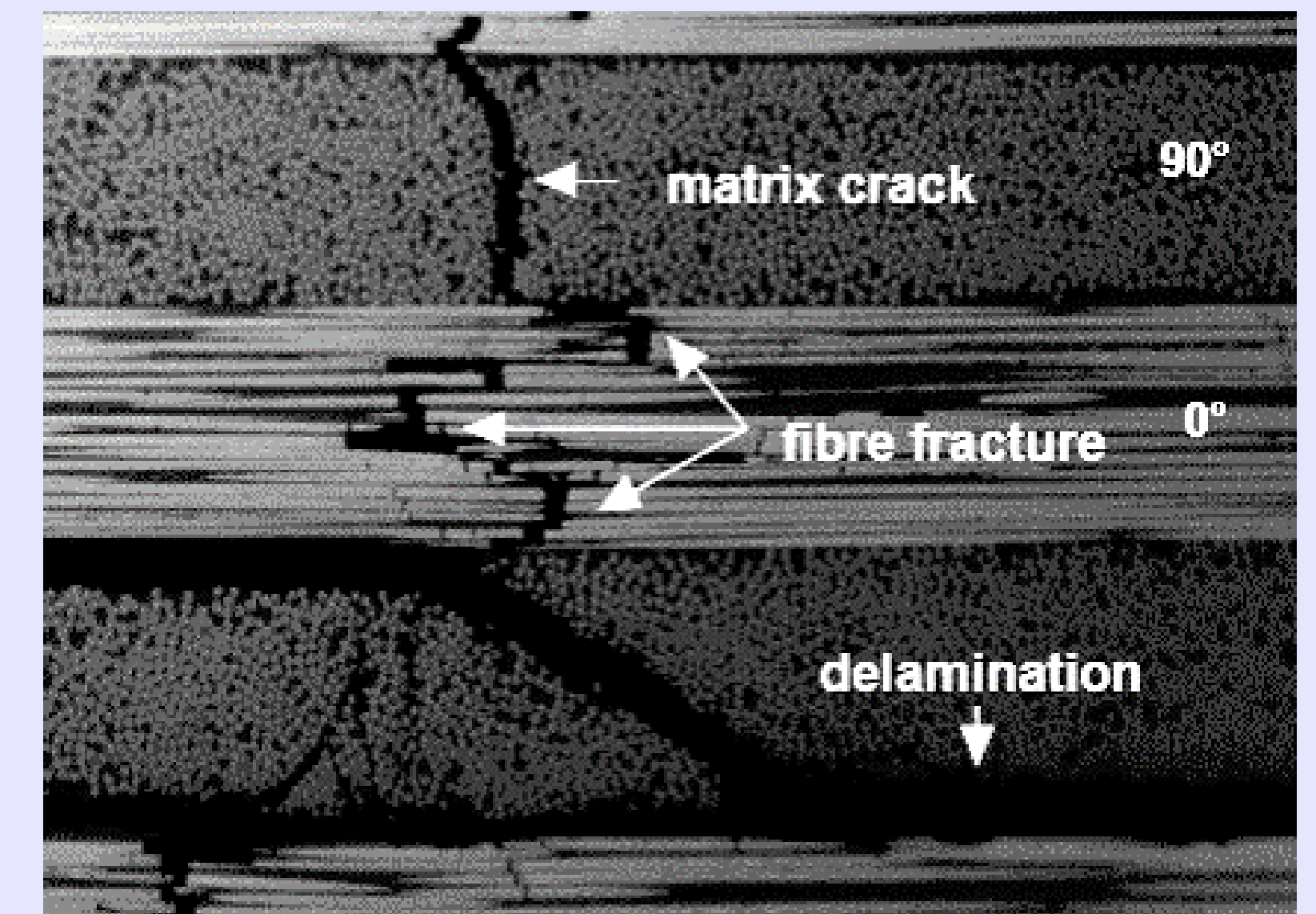
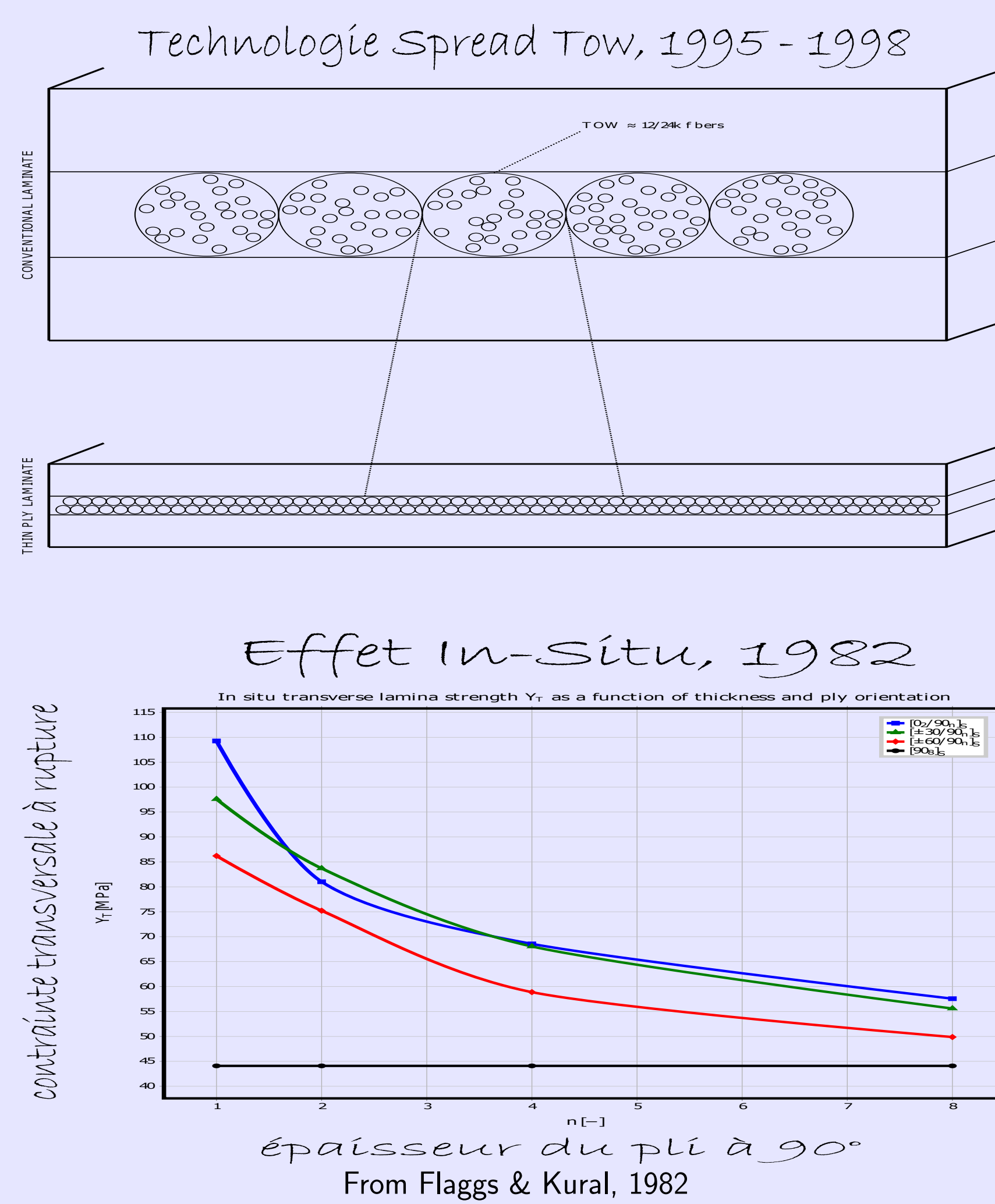
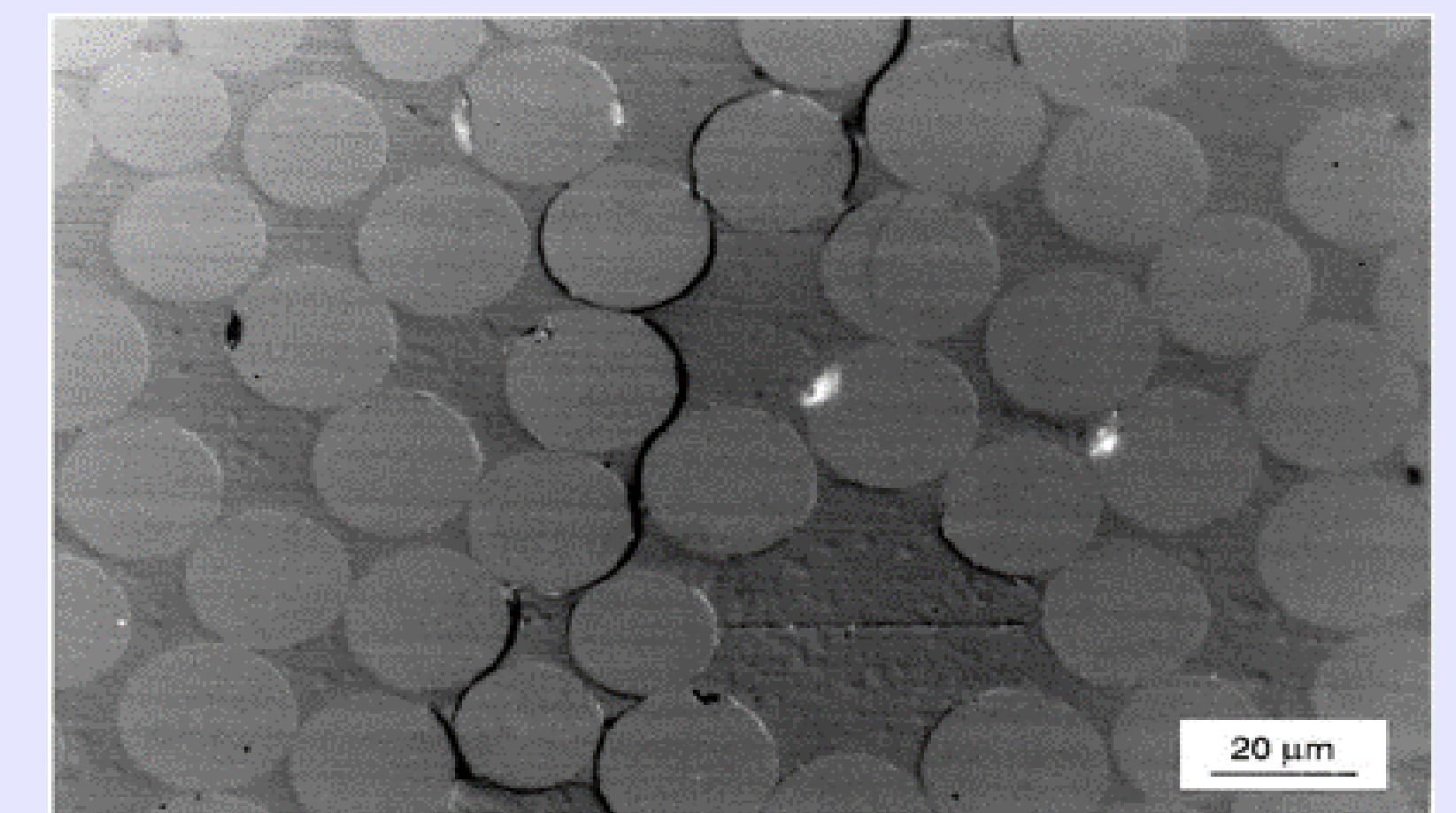


Modèles micromécaniques du dommage intra-laminaire dans les stratifiés avec couches fines

L'industrie aérospatiale face aux défis du futur : perspectives et enjeux



(c) By Dr. R. Olsson, Swerea, SE.



(d) By Prof. Dr. E. K. Gamstedt, KTH, SE.

Objectifs & Approche

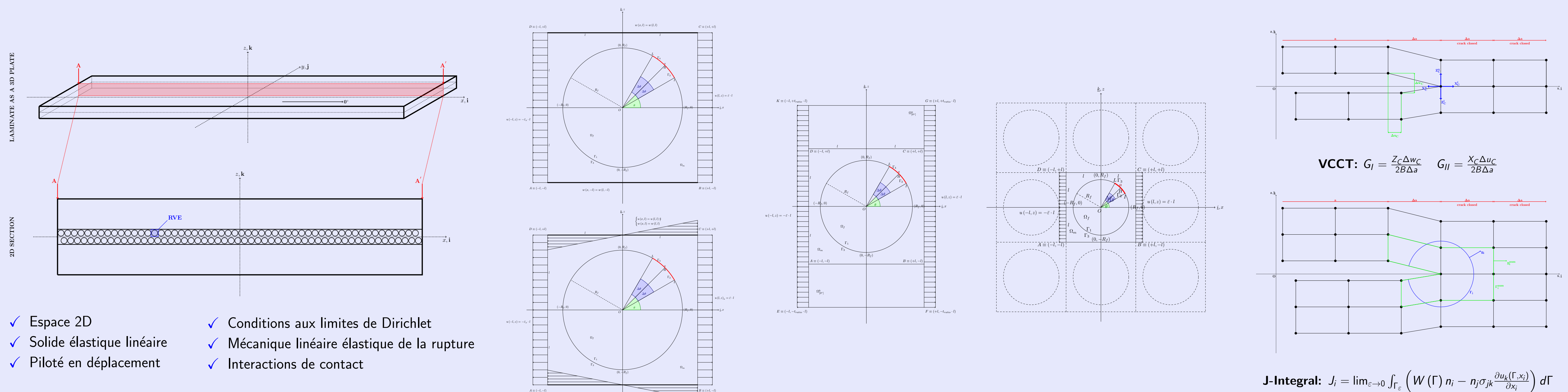
Que-est qu'on veut atteindre ?

$$G_{*C} = G_{*C} \left(\theta_{debond}, \Delta\theta_{debond}, E_{(\cdot)}, \nu_{(\cdot)}, G_{(\cdot)}, VF_f, t_{ply}, \frac{t_{ply}}{t_{bounding \ plies}} \right)$$

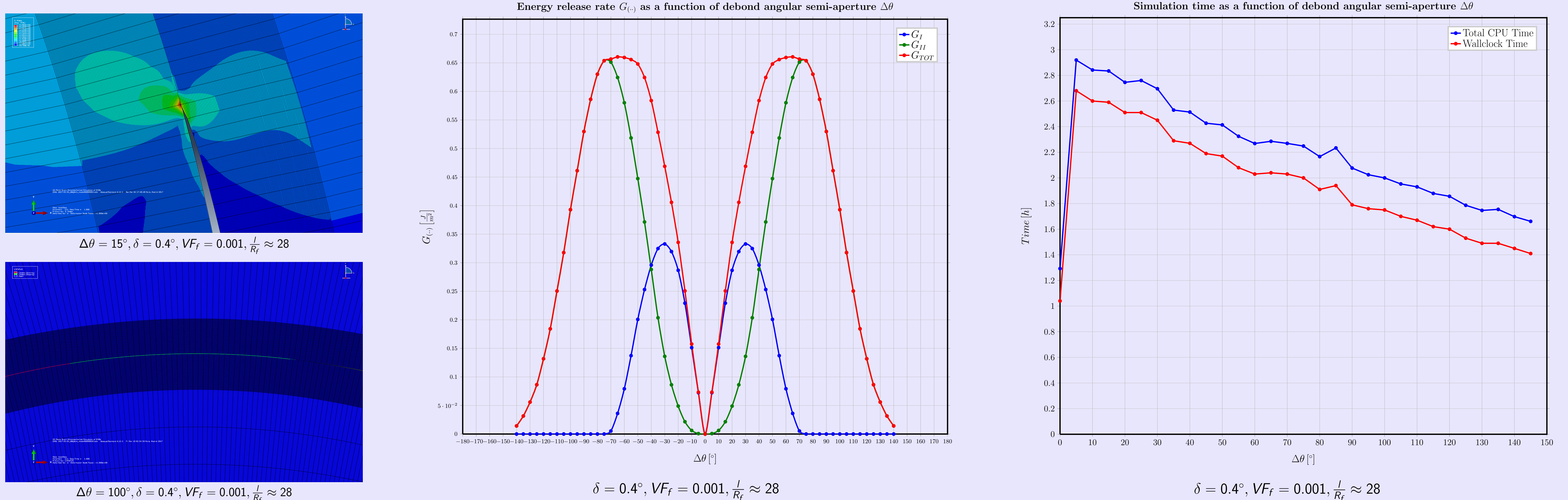
Comment on veut l'atteindre ?

Méthode des éléments finis (MEF)

Conception des modèles de Volumes Élémentaire Représentatif (VER) à l'échelle microscopique



Preliminary Results & Validation



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