Relating canopy architecture to GPP

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Canopies are tricky to parameterize...

fPAR

Leaf angles

Clumping

Sun versus shade
But structure controls productivity

\[ A_c = A_0 \cdot \Pi \]
SIF and NIRv relate to canopy structure

\[ R^2 = 0.90 \]
At Harvard Forest, SIF/NIRv explain GPP
The Big Leaf Model

\[ A_c = A_0 \cdot \Pi \]
SIF-derived $\Pi$ at Harvard Forest