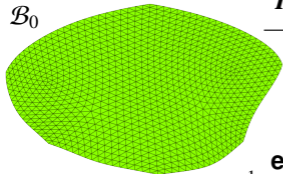


**in vivo
unloaded**

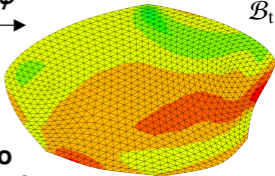
\mathcal{B}_0



$$F = \nabla \varphi$$

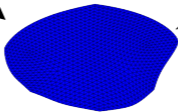
**in vivo
loaded**

\mathcal{B}_t



**ex vivo
unloaded**

\mathcal{B}_e



$$F^p$$

$$F^{p-1}$$

$$F^e$$