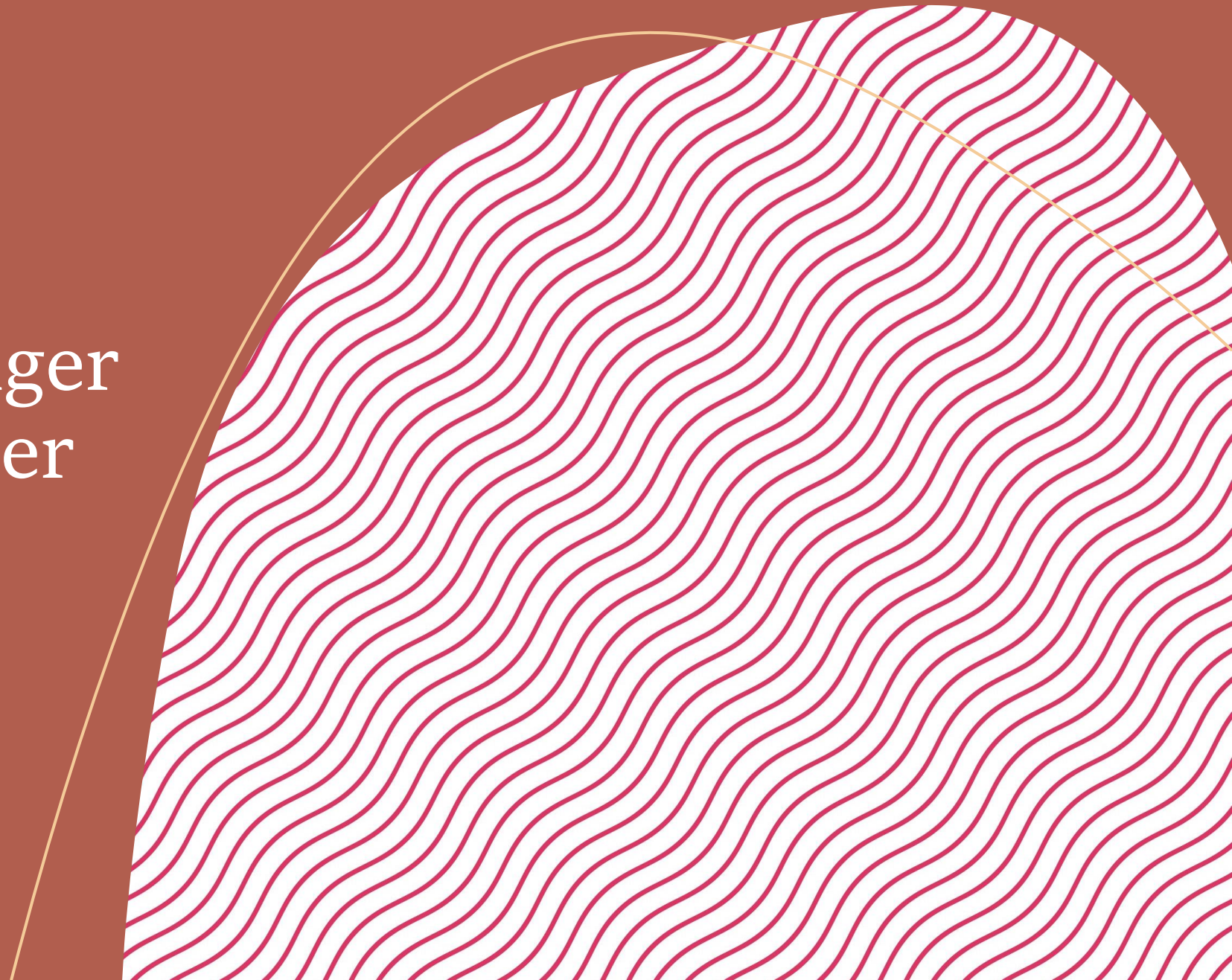


Eksellenssatsinger – og utfordringer

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sundtPOP

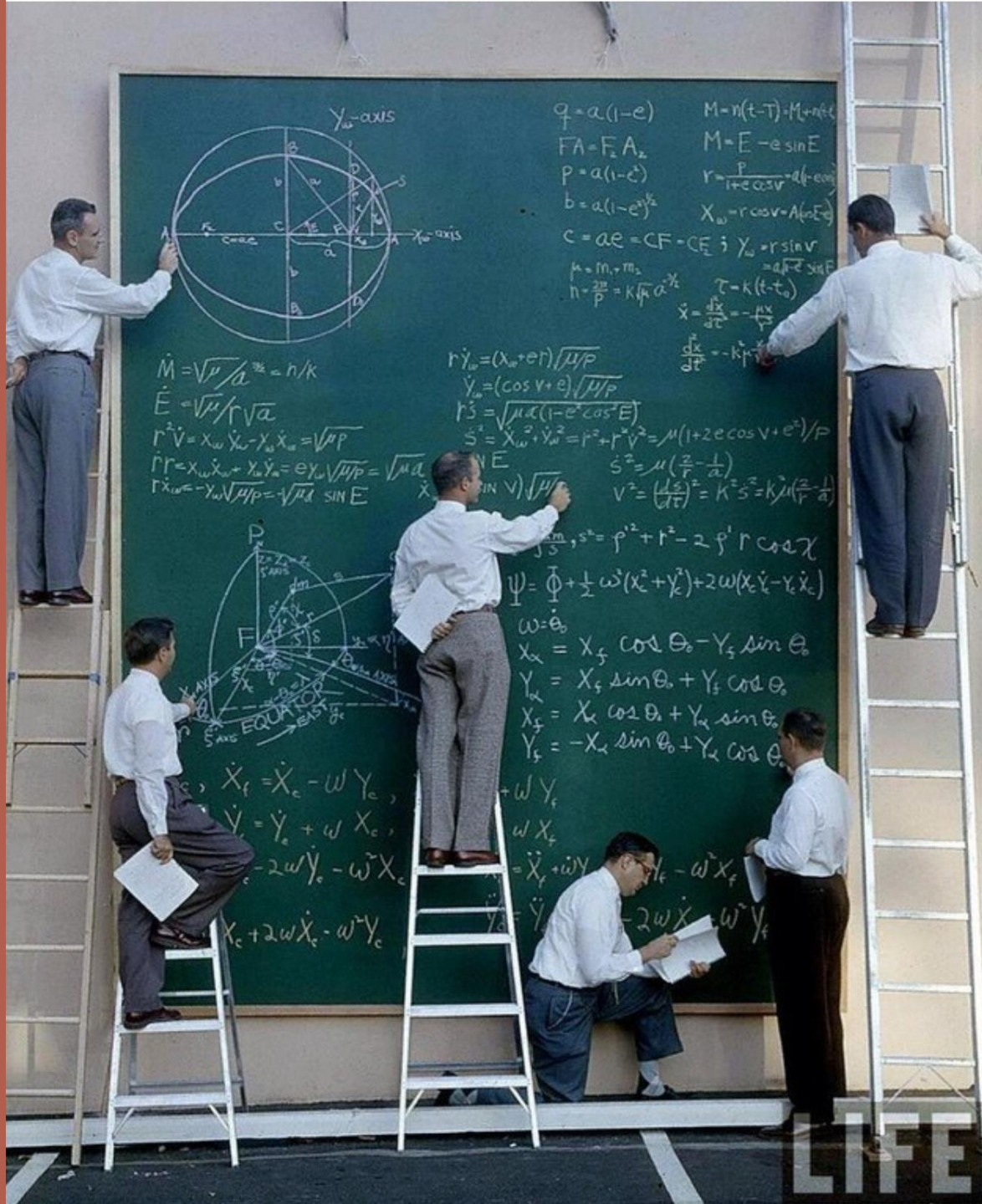
Eilert Sundt Center for Population Research



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$q = a(1-e)$ $M = n(t-T) - M_0 + n_0 t$
 $FA = F_2 A_2$ $M = E - e \sin E$
 $p = a(1-e^2)$ $r = \frac{p}{1+e \cos v} = a(1-e \cos E)$
 $b = a(1-e^2)^{1/2}$ $X_w = r \cos v = A(\cos E)$
 $c = ae = CF = CE$; $Y_w = r \sin v = a \sqrt{1-e^2} \sin E$
 $\mu = m_1 + m_2$ $\tau = k(t-t_0)$
 $n = \frac{2\pi}{P} = k \sqrt{\frac{a^3}{\mu}}$ $\dot{x} = \frac{dx}{dt} = -\frac{dx}{dt}$
 $\dot{y} = \frac{dy}{dt} = -k \sqrt{\frac{a^3}{\mu}}$

$\dot{M} = \sqrt{\mu/a} = n/k$
 $\dot{E} = \sqrt{\mu/r^3 a}$
 $r^2 \dot{v} = X_w \dot{X}_w - Y_w \dot{Y}_w = \sqrt{\mu/p}$
 $\dot{r} = X_w \dot{X}_w + Y_w \dot{Y}_w = e Y_w \sqrt{\mu/p} = \sqrt{\mu a} \sin E$
 $r \dot{X}_w = -Y_w \sqrt{\mu/p} = \sqrt{\mu a} \sin E$

$r \dot{Y}_w = (X_w + e r) \sqrt{\mu/p}$
 $\dot{Y}_w = (\cos v + e) \sqrt{\mu/p}$
 $r \dot{S} = \sqrt{\mu a (1-e^2 \cos^2 E)}$
 $S^2 = X_w^2 + Y_w^2 = r^2 + r^2 \dot{v}^2 = \mu(1+2e \cos v + e^2)/p$
 $S^2 = \mu \left(\frac{r}{a} - 1 \right)$
 $v^2 = \left(\frac{S}{r} \right)^2 = k^2 S^2 = k^2 \mu \left(\frac{r}{a} - 1 \right)$

$\Psi = \Phi + \frac{1}{2} \omega^2 (X_c^2 + Y_c^2) + 2\omega (X_c \dot{Y}_c - Y_c \dot{X}_c)$
 $\omega = \dot{\theta}_0$
 $X_c = X_f \cos \theta_0 - Y_f \sin \theta_0$
 $Y_c = X_f \sin \theta_0 + Y_f \cos \theta_0$
 $X_f = X_c \cos \theta_0 + Y_c \sin \theta_0$
 $Y_f = -X_c \sin \theta_0 + Y_c \cos \theta_0$

$\dot{X}_f = \dot{X}_c - \omega Y_c$
 $\dot{Y}_f = \dot{Y}_c + \omega X_c$
 $\ddot{X}_c = -2\omega \dot{Y}_c - \omega^2 X_c$
 $\ddot{Y}_c = 2\omega \dot{X}_c - \omega^2 Y_c$

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