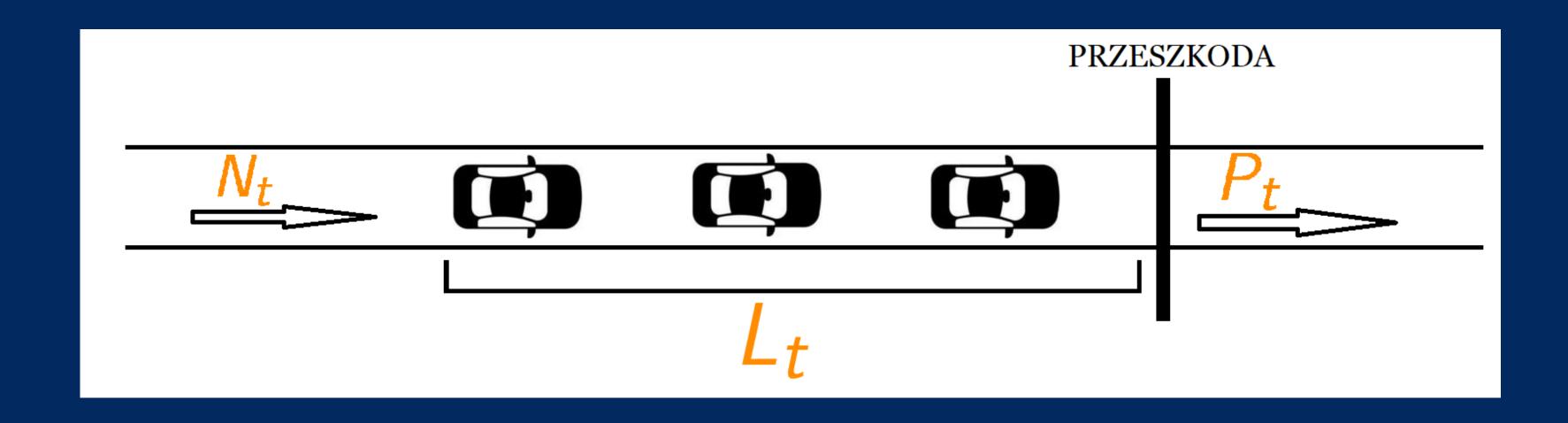
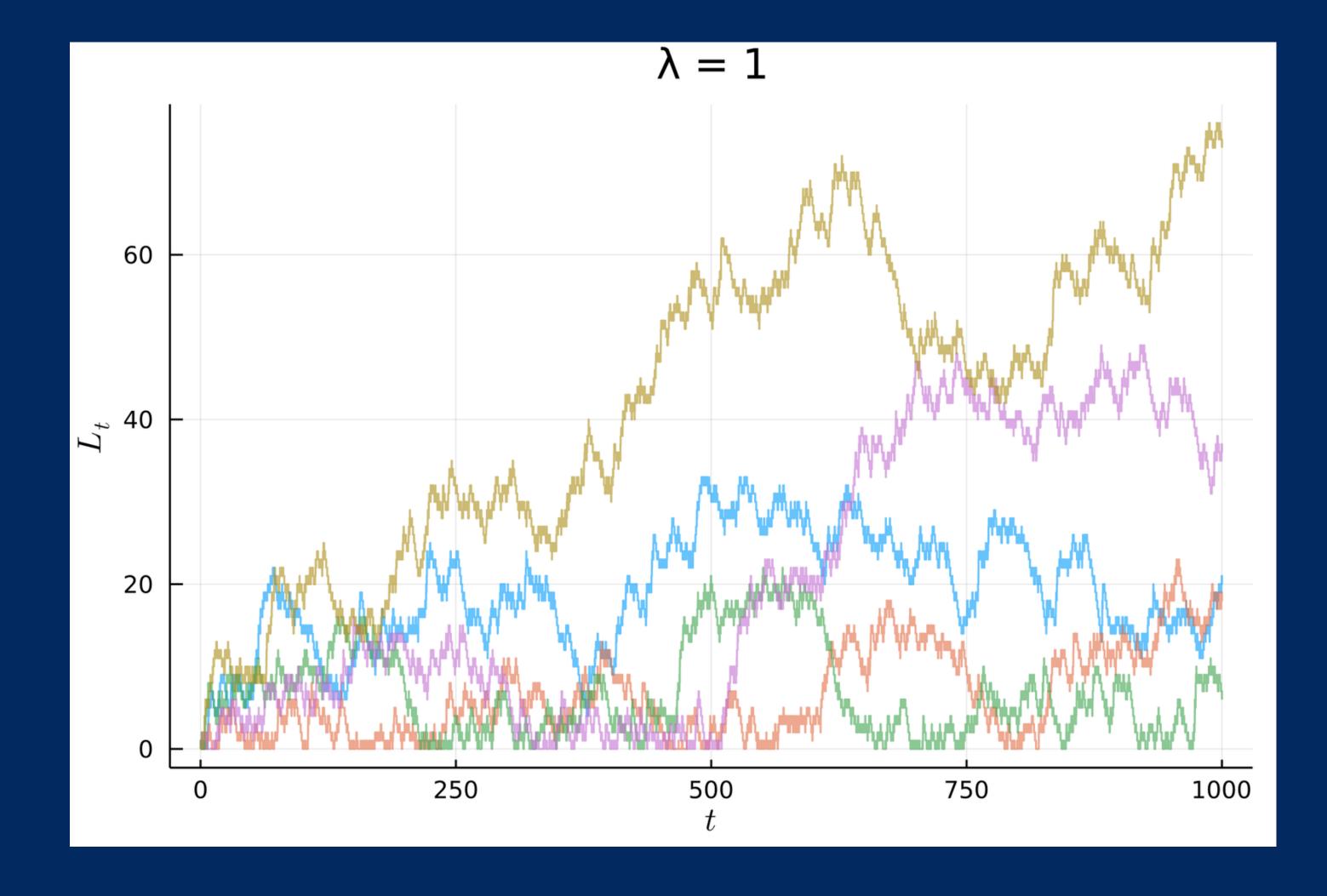
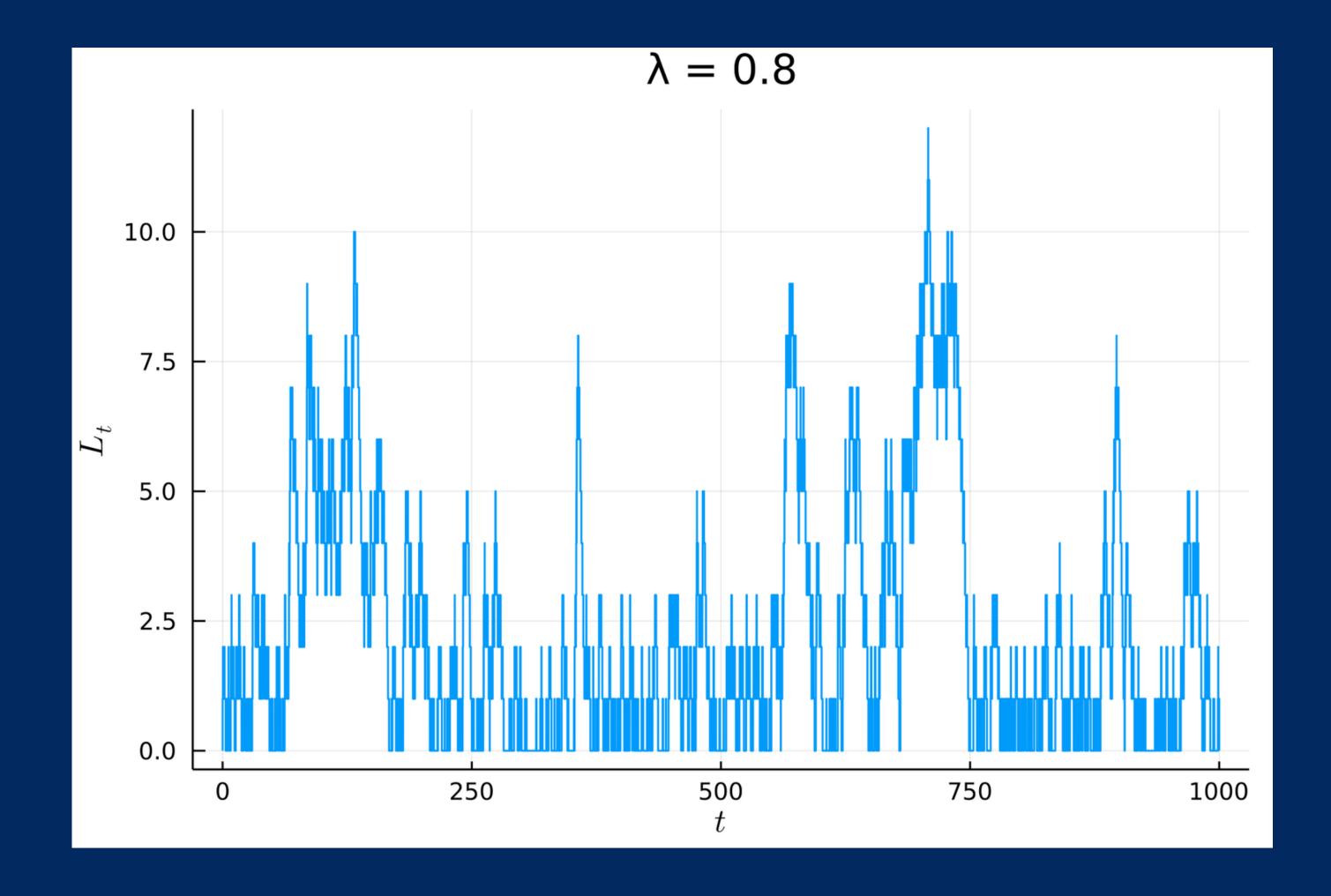
MODELOWANIE RUCHU ULICZNEGO

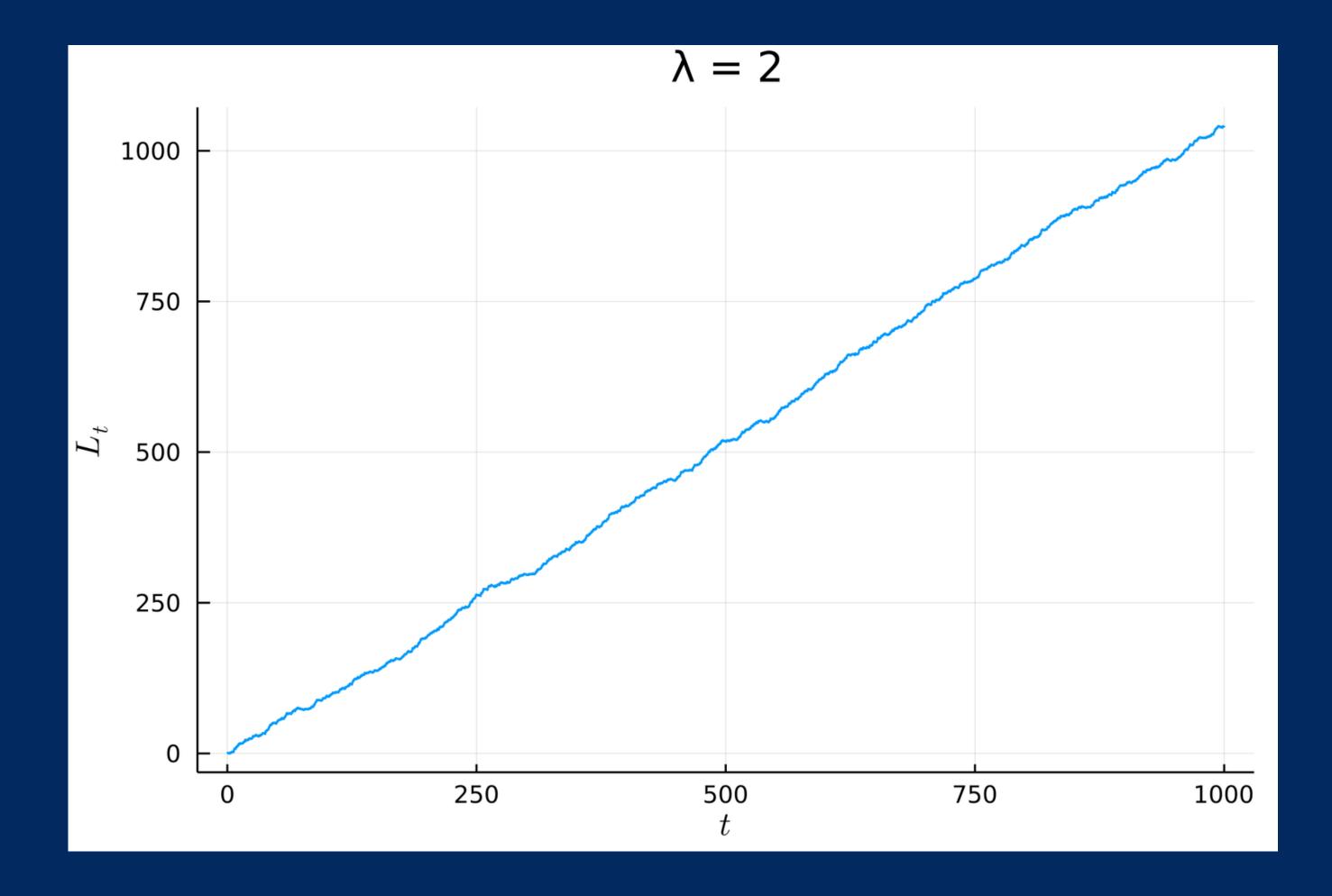
NATALIA KLEPACKA SZYMON MALEC FILIP OSZCZEPALIŃSKI DAMIAN SZUSTER MICHAŁ WIKTOROWSKI

$$L_t = N_t - P_t$$



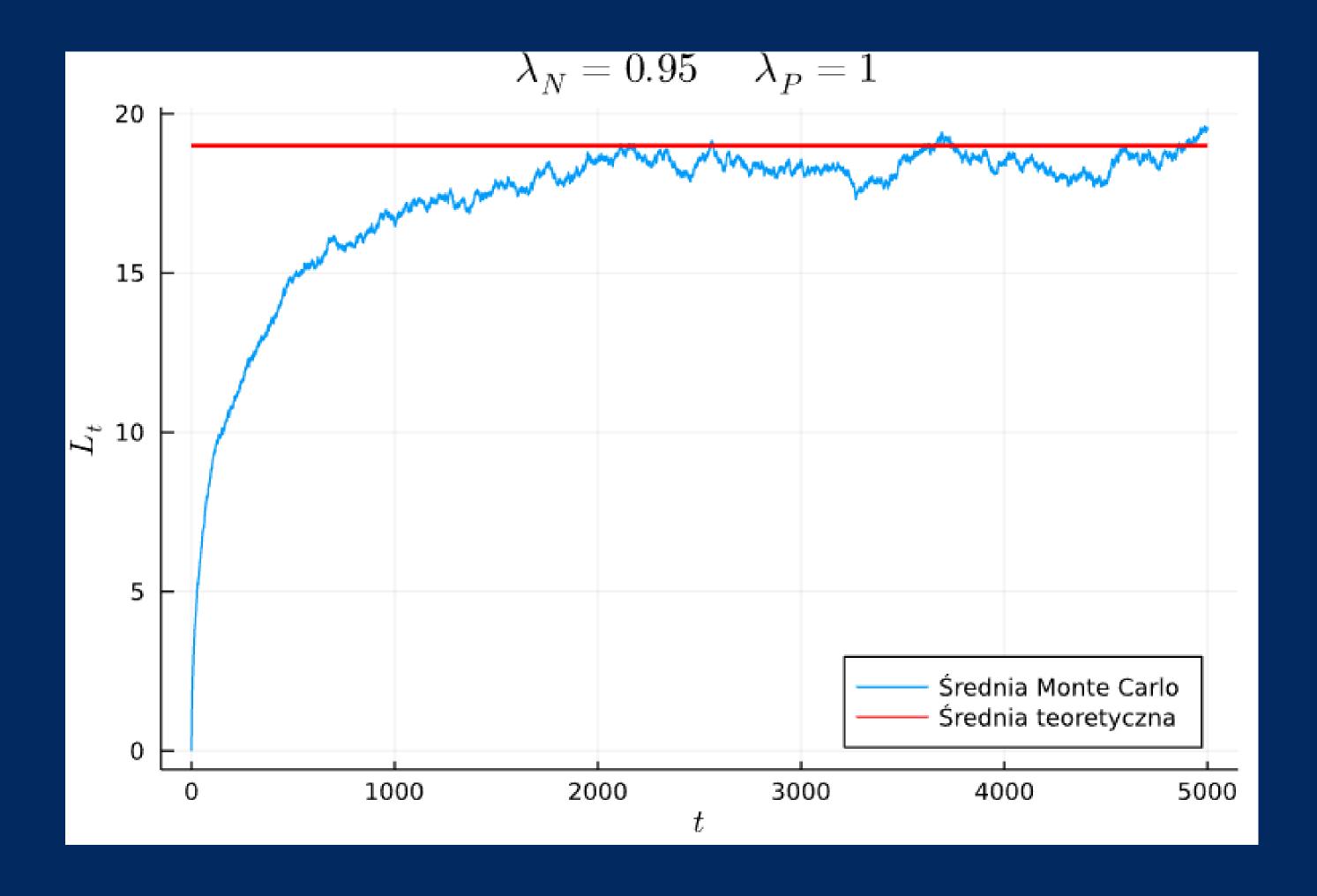


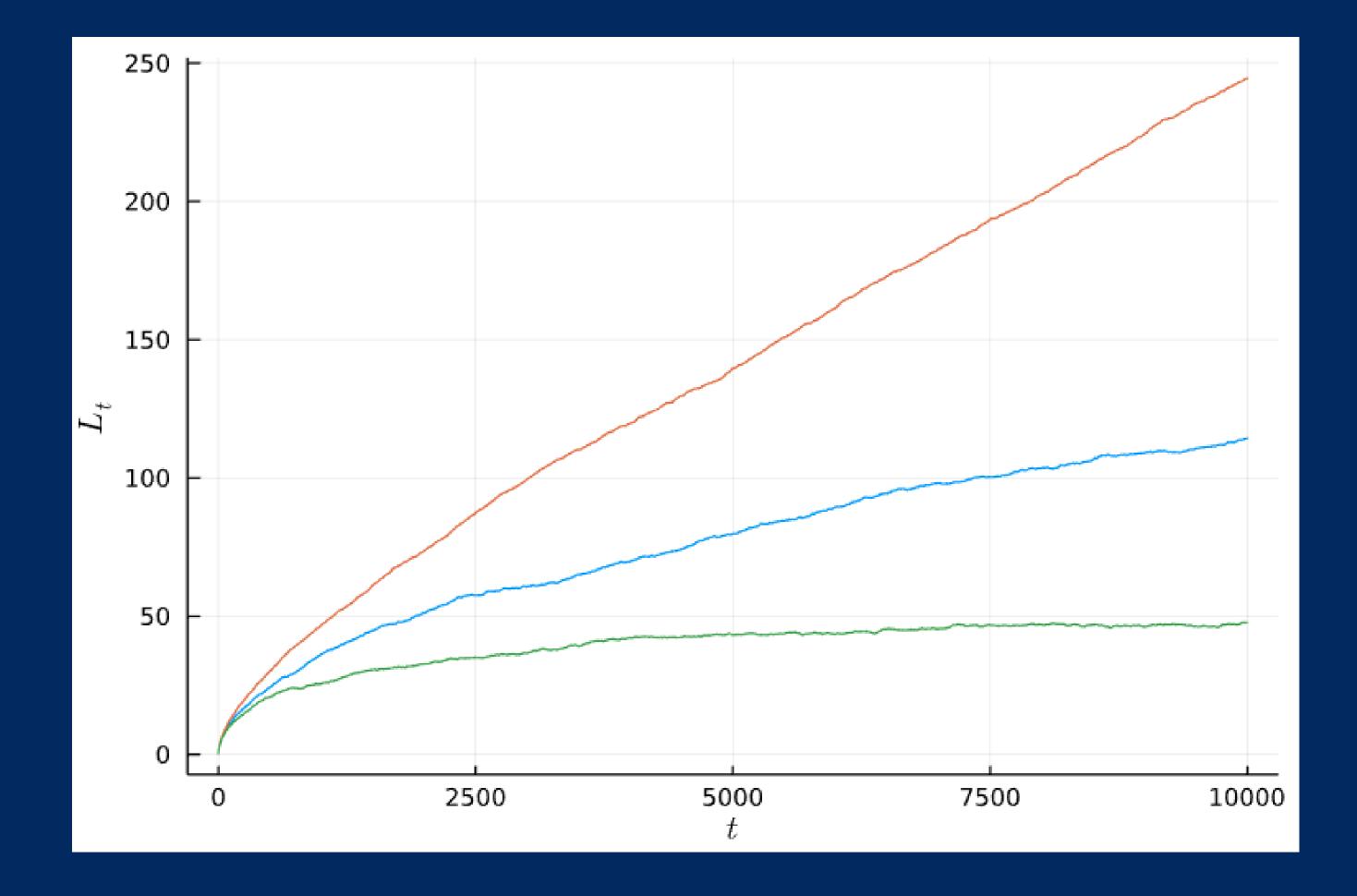




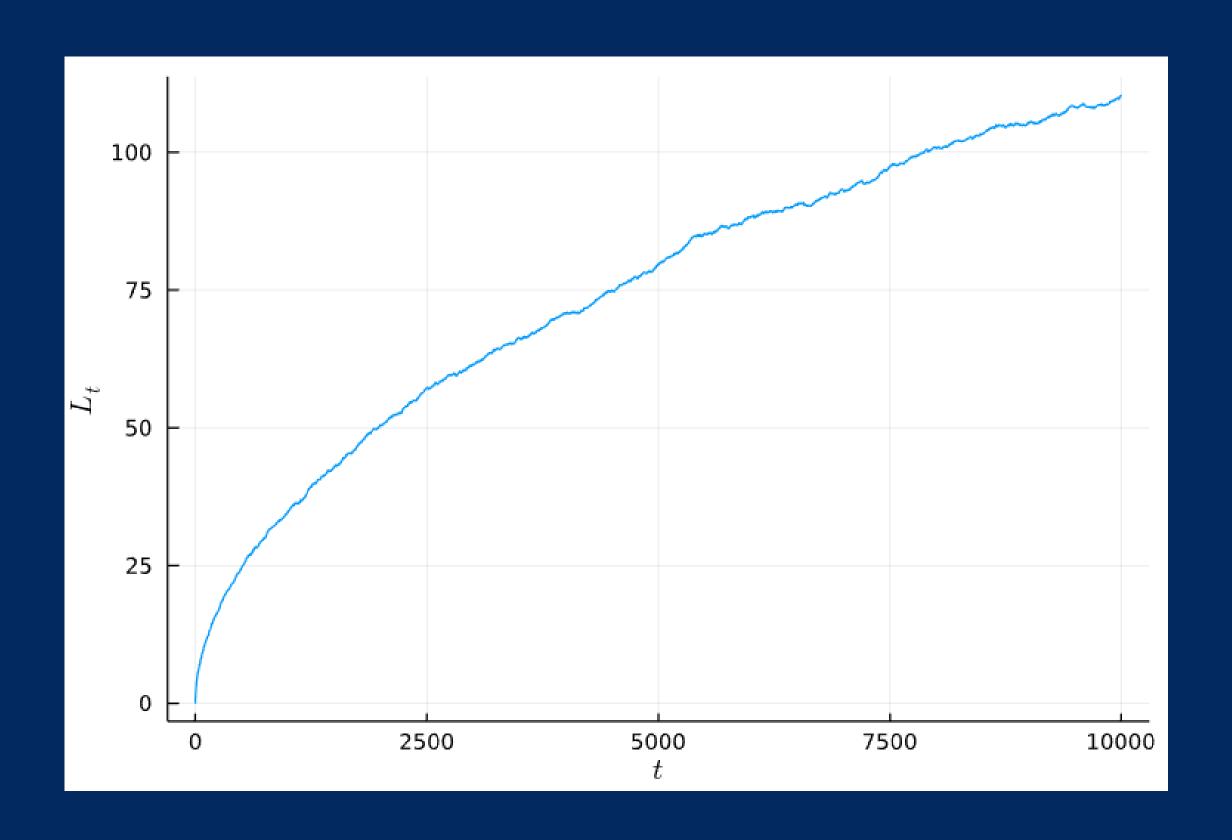
$$\rho = \frac{\lambda_N}{\lambda_P}$$

$$\lim_{t \to \infty} EL_t = \frac{\rho}{1 - \rho} \quad dla \quad \rho < 1$$

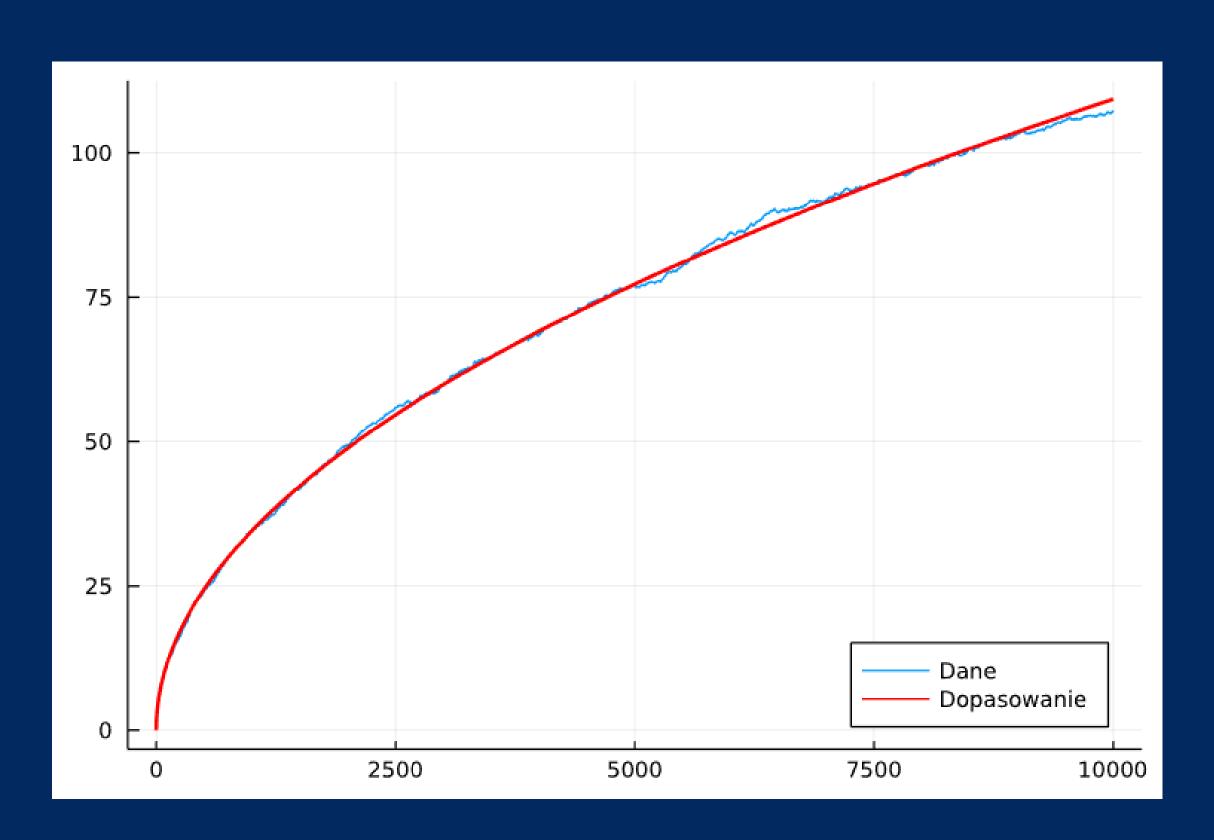




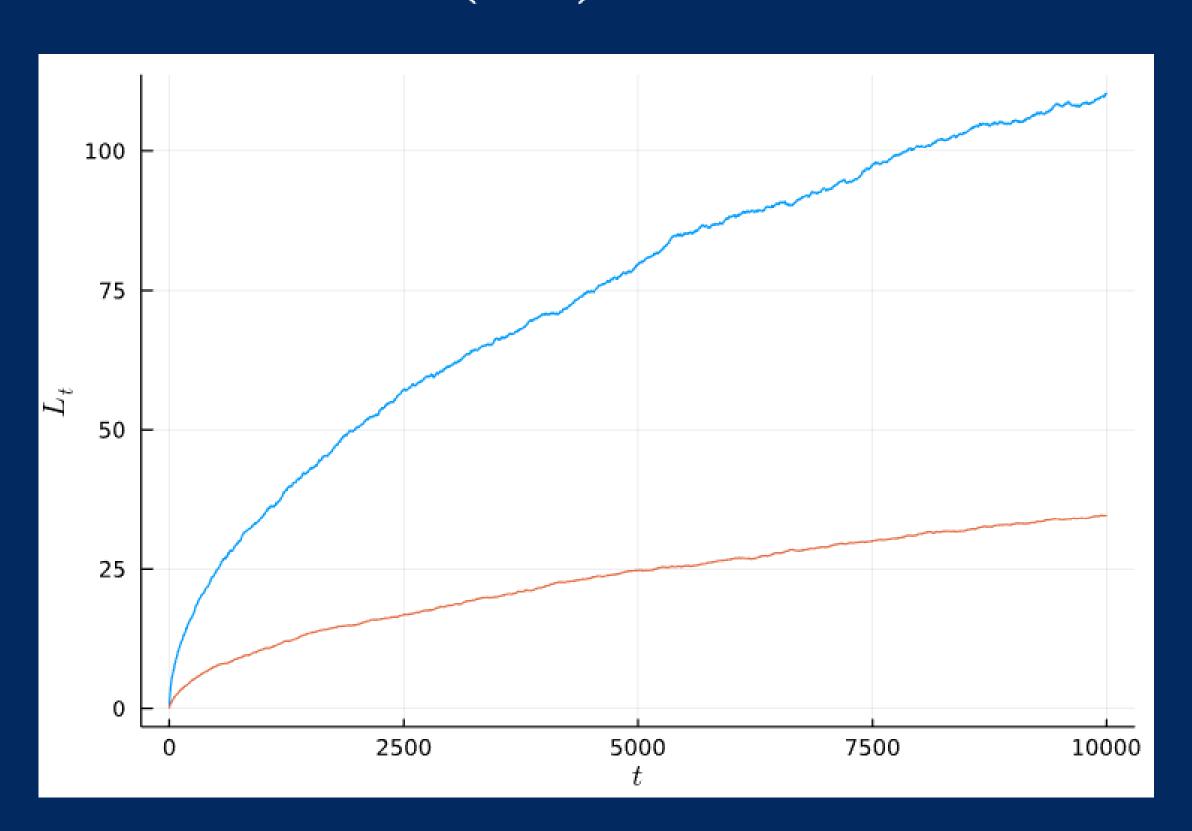
$\lambda_N = \lambda_P = \lambda$

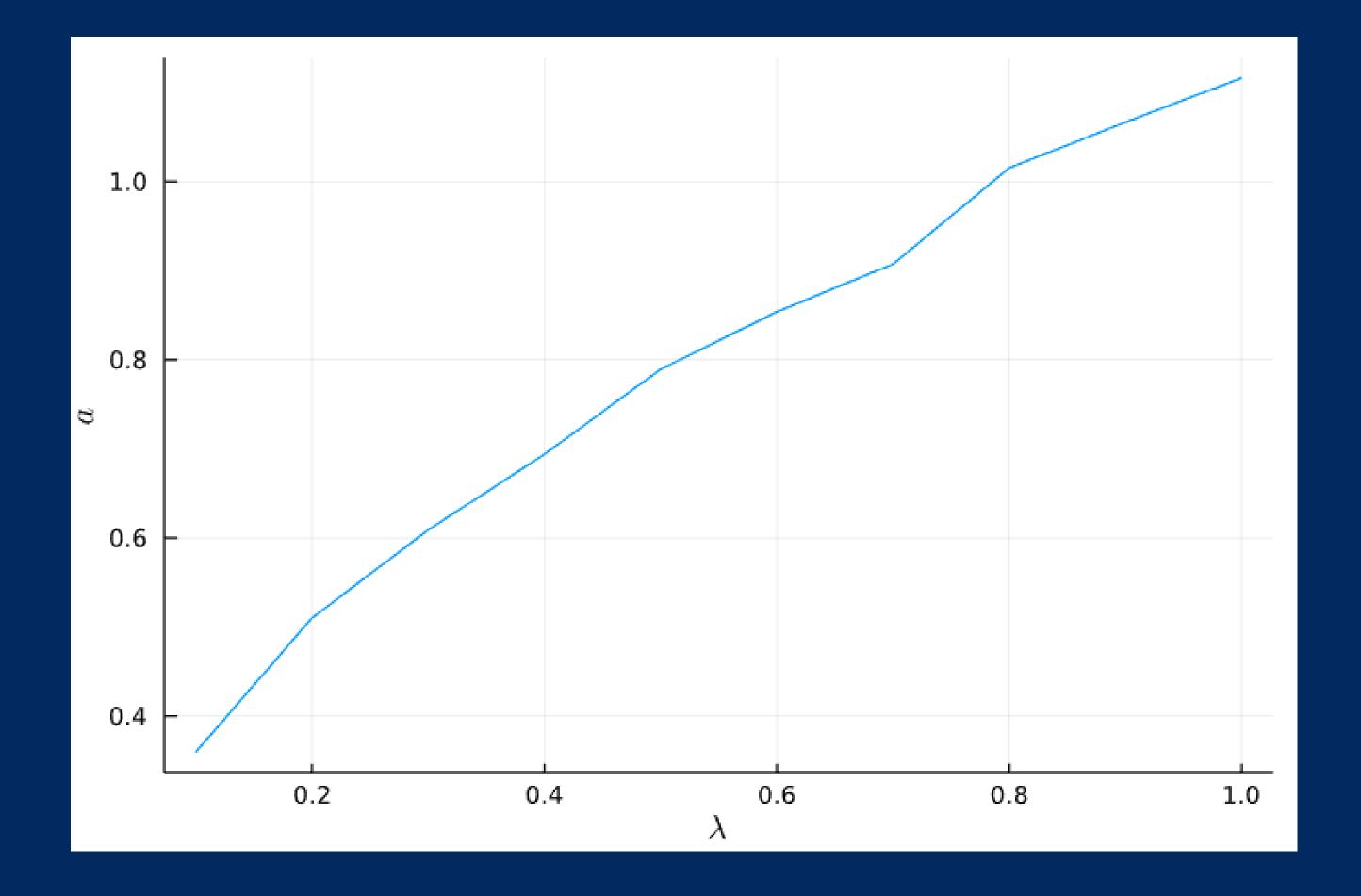


$\mathrm{E}L_{t} pprox a\sqrt{t}$

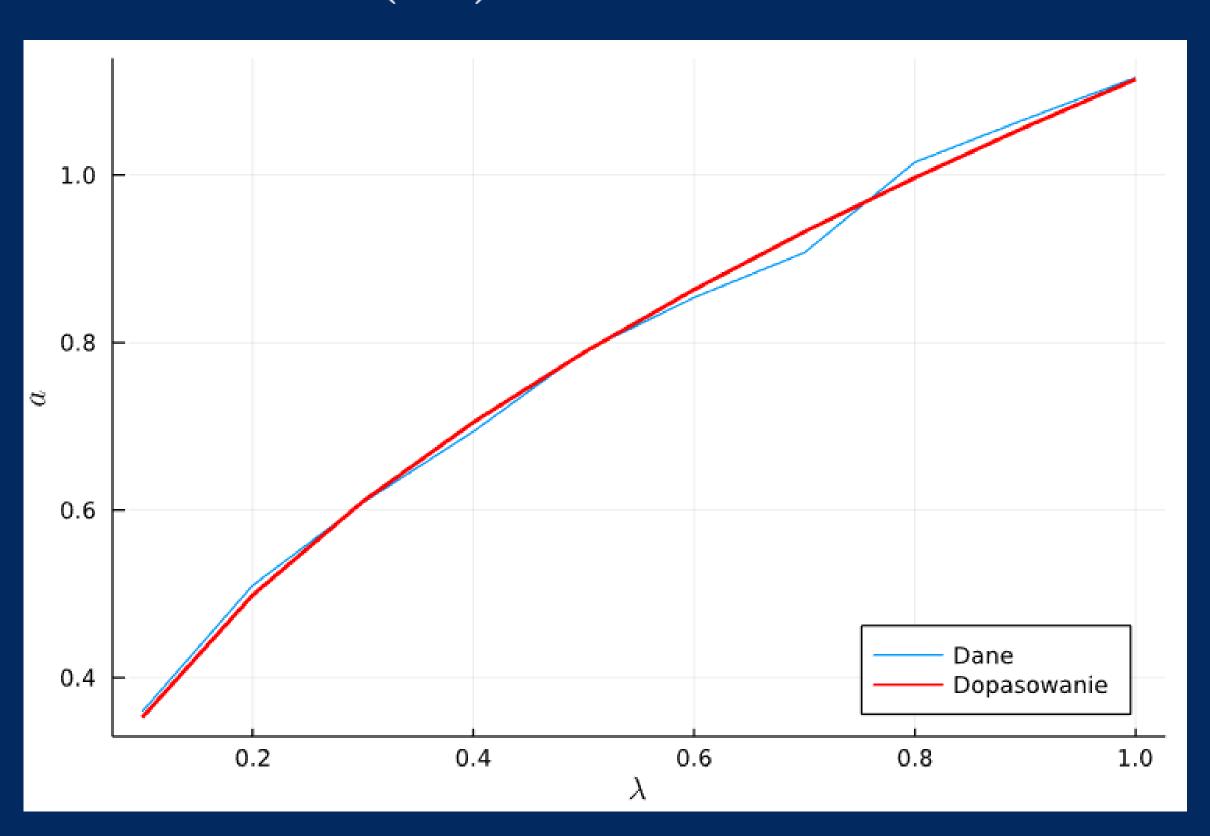


$$a(\lambda) = ?$$





$$a(\lambda) = \alpha \sqrt{\lambda}$$

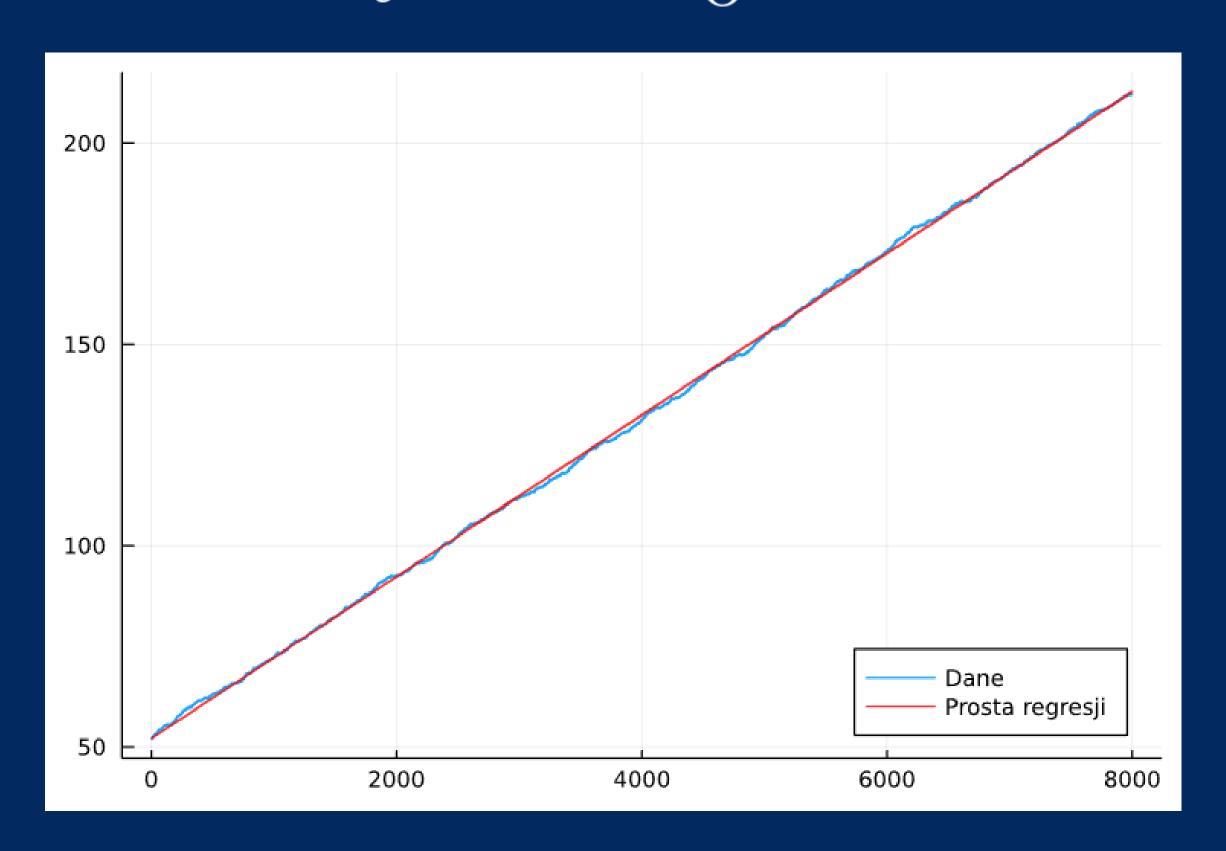


$$EL_t \approx a\sqrt{t} = \alpha\sqrt{\lambda}\sqrt{t} = 1.1\sqrt{\lambda}t$$

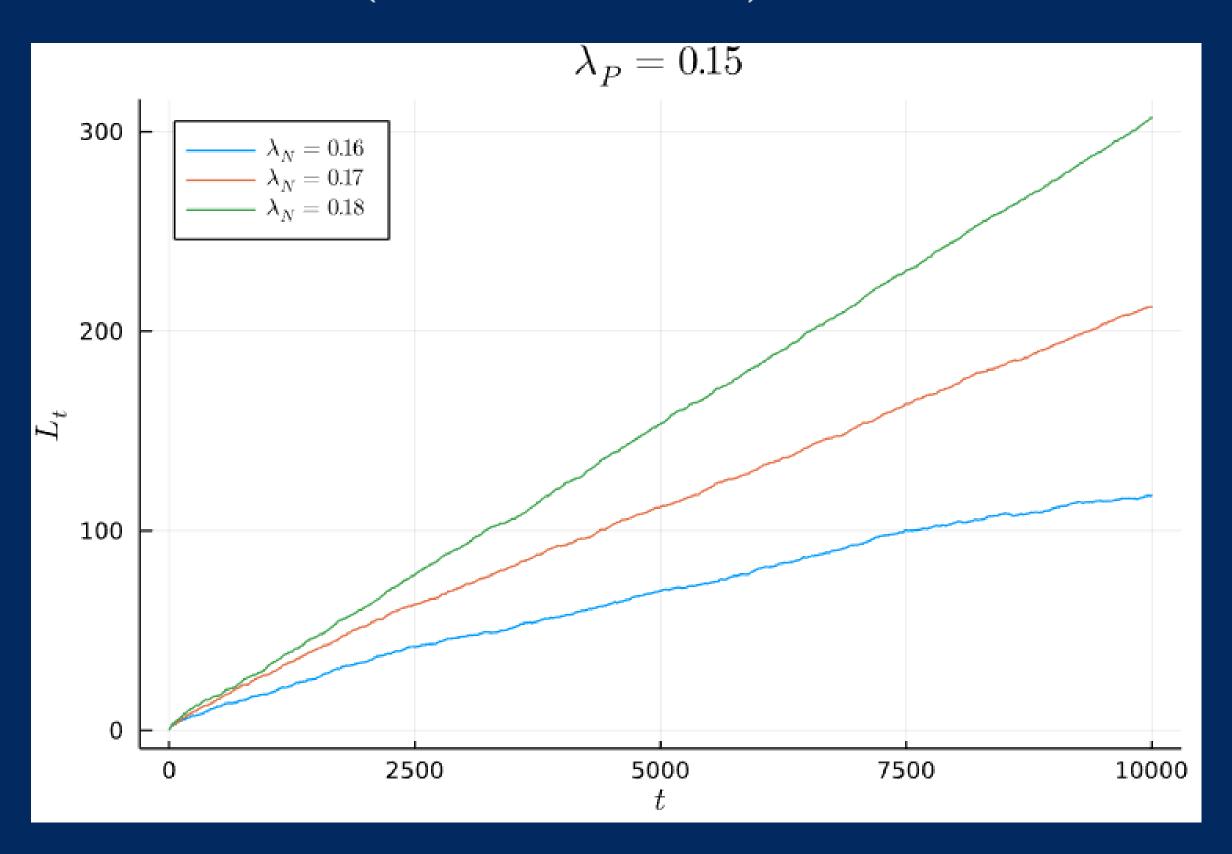
$$\mathrm{E}L_{t} \approx 1.1 \sqrt{\lambda t}$$

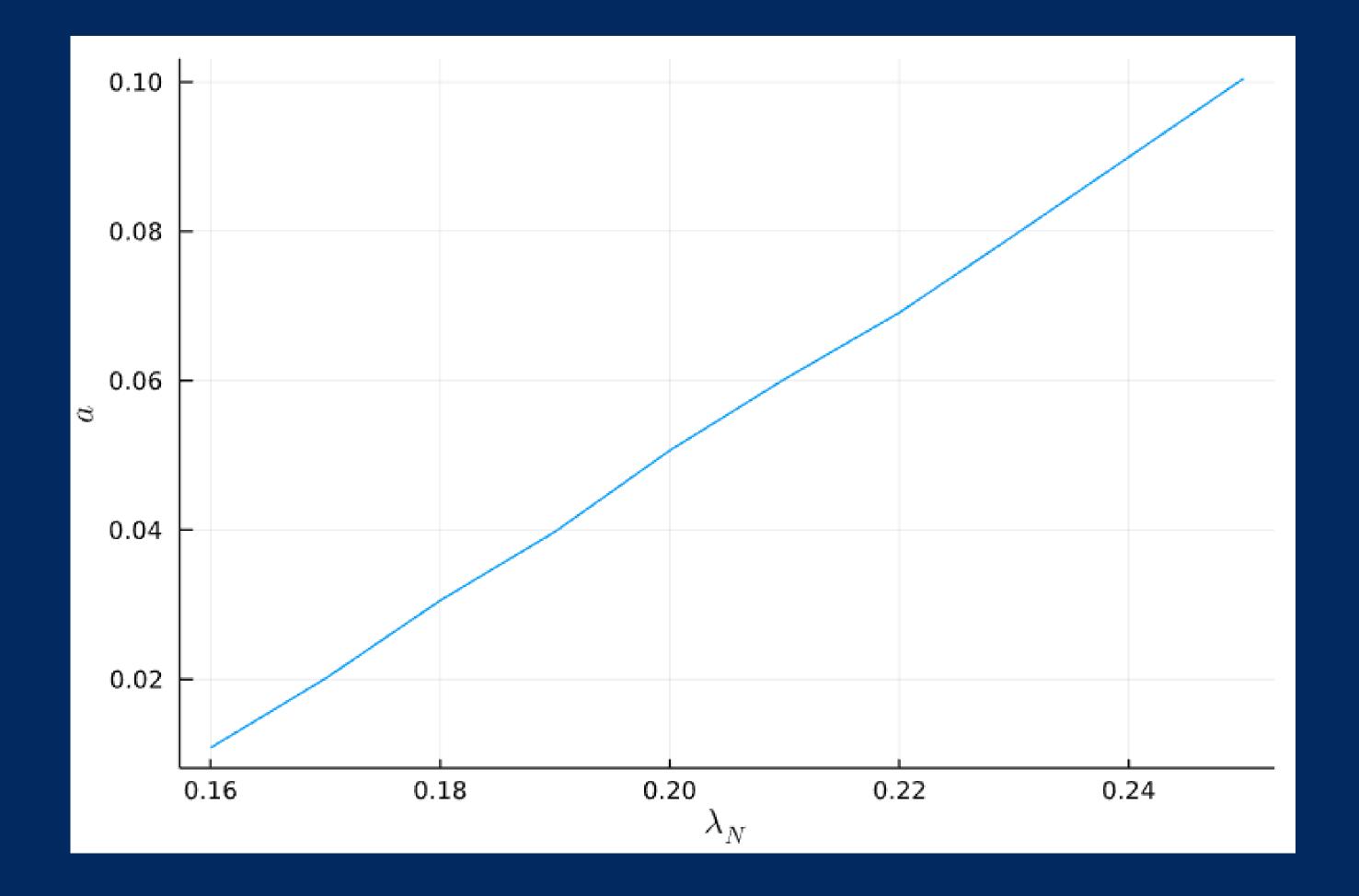
NATĘŻENIE WIĘKSZE OD PRZEPUSTOWOŚCI

$EL_t \approx L_0 + at$

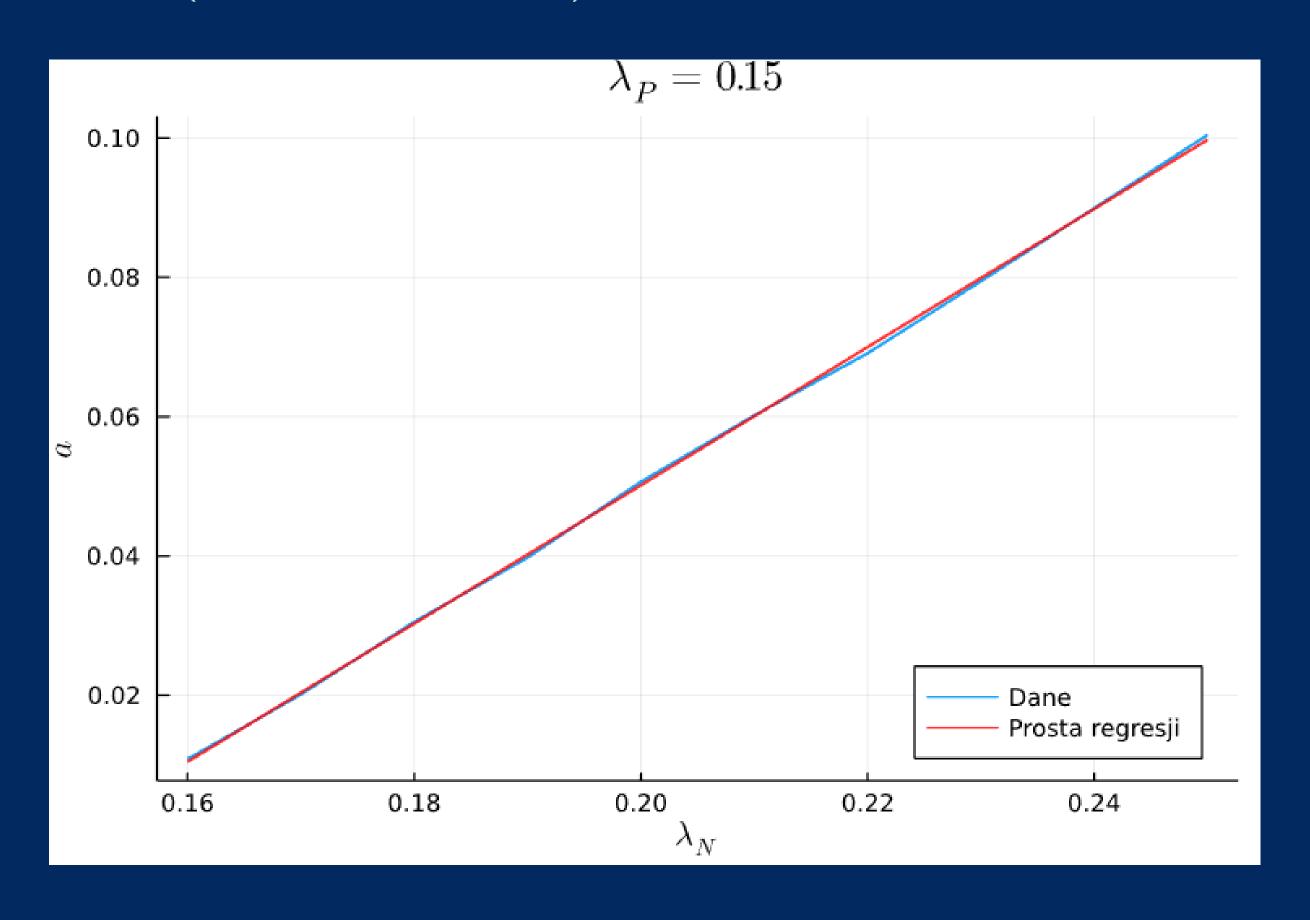


$a(\lambda_N, \lambda_P) = ?$

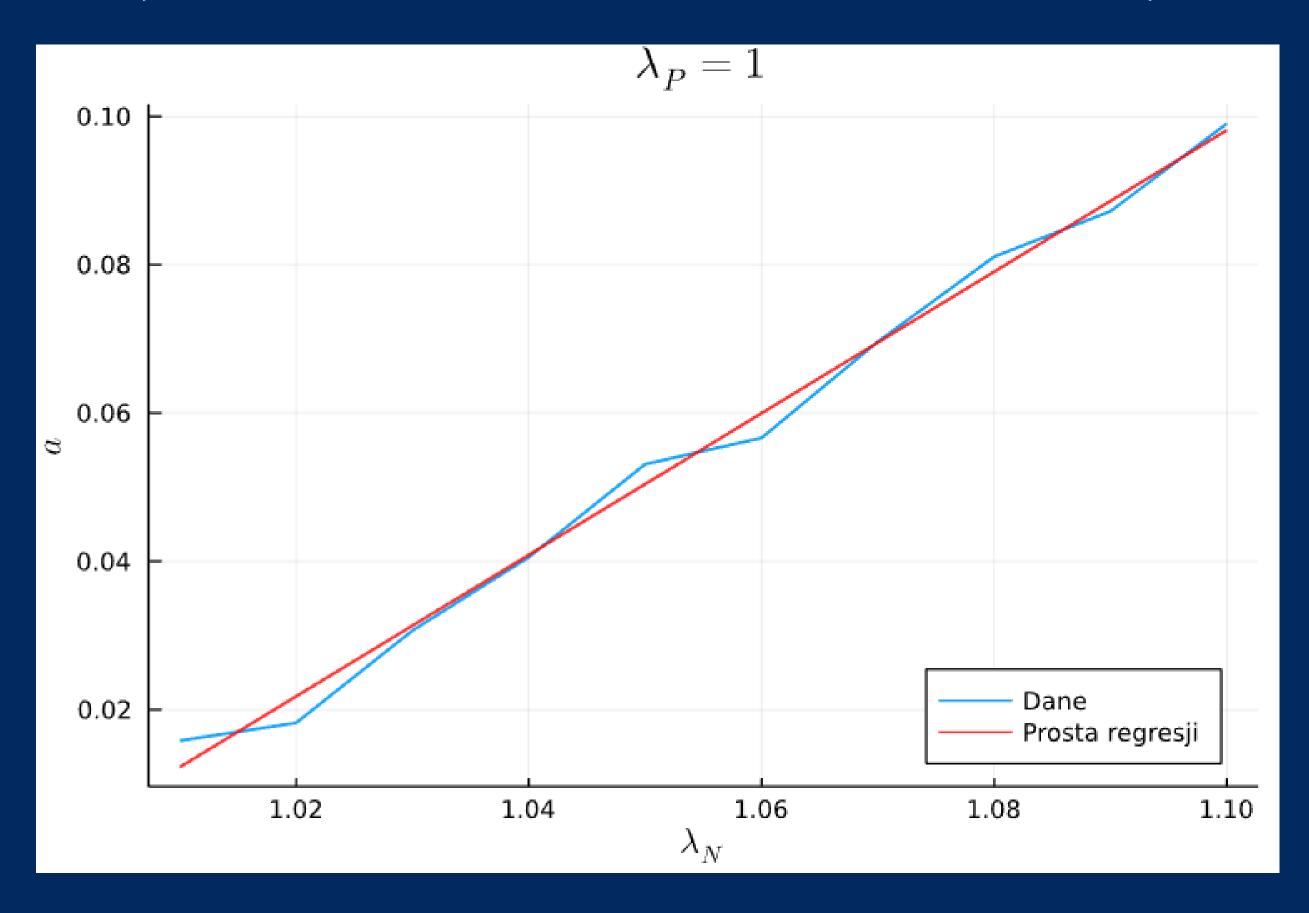




$a(\lambda_N, 0.15) \approx \lambda_N - 0.15$



$a(\lambda_N, 1) \approx 0.95\lambda_N - 0.95 = 0.95(\lambda_N - 1)$







DZIĘKUJEMY ZA UWAGĘ











